

**RESOLUTION No. 58 OF 22 JUNE 2020****Changed the description/text**

NCM	N° Ex	Description	Regulation	Tax	Deadline
9401.90.90	43	Support LD upper arm Polyvin injected with surface film, black color, with the dimensions: length between 282 mm and 386.3 mm; height between 46.5 and 109 mm; a width between 72 mm and 97.1 mm, with sheet metal internally injected fixing the support automotive seat.	GECEX Resolution No. 42 of May 4, 2020.	2	Unknown

**Excluded from the Anex I**

NCM	N° Ex	Description	Regulation	Tax	Deadline
8408.90.90	52	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
8408.90.90	53	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
8413.30.20	5	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8413.91.90	38	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8414.30.91	5	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8414.30.91	6	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8481.90.90	36	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8481.90.90	37	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8482.99.90	8	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8483.40.90	8	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
8512.40.10	2	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
8708.30.90	23	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
9027.90.99	15	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown
9031.80.99	15	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
9032.89.82	12	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown

**Excluded from the Anex II**

NCM	N° Ex	Description	Regulation	Tax	Deadline
8433.90.90	6	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
8483.40.10	284	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
8483.60.90	37	-	GECEX Resolution No. 23 of December 30, 2019.	2	Unknown
9032.89.89	52	-	GECEX Resolution No. 8 of January 30, 2020.	2	Unknown

Included in the Anex I

NCM	Nº Ex	Description	Regulation	Tax	Deadline
8408.90.90	5	Internal combustion piston engine, diesel cycle, 4 cycle, water-cooled compression ignition and indirect injection with three vertical-cylinder naturally aspirated engine capacity of 1.496 liters, diameter and piston stroke of 84 mm x 90 mm 0.16 m3 motor housing, for use in self-propelled equipment (mobile) off-road and stationary equipment with gross power of 15 kW to 25.1 kW speed of 1500 to 3000 rpm, meeting the emission limits in accordance with the certification EU Stage IIIA (directives 97/68 / EC, as last amended, and 2004/26 / EC, as last amended).	CAMEX Resolution No. 23 of December 30, 2019.	2	Unknown
8408.90.90	6	Internal combustion piston engine, diesel cycle, 4 cycle, water-cooled compression ignition and indirect injection with three vertical-cylinder naturally aspirated engine capacity of 1.496 liters, diameter and piston stroke of 84 mm x 90 mm 0.32 m3 motor housing, mounted radiator and fan, mounted with air filter for use in self-propelled equipment (mobile) off-road and stationary equipment with intermittent net power of 15 kW to 24.2 kW, speed of 1500 rpm to 3000 rpm, meeting emission limits in accordance with the certification EU Stage IIIA (directives 97/68 / EC, as last amended, and 2004/26 / EC, as last amendment).	CAMEX Resolution No. 23 of December 30, 2019.	2	Unknown
8413.30.20	6	Pump fuel pressurization, mechanical, up to 4 kg, with electric solenoid valve, driven shaft cams, applied to diesel engines for use in heavy and medium commercial vehicles, which when installing the engine block must be driven by the camshaft axis that moves the spring of the fuel pump by contact with the tappet roletado and raises the internal pressure of the pump up to 2220bar, which after electrical signal received in the solenoid valve for the electronic management of central motor sends fuel to the electronic nozzle with flow maximum of 754 mm3 per stroke.	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown
8413.91.90	50	Cover made of aluminum without depressions on the face of the suction port with the fuel suction functionality, with a diameter of 7,45mm x 7,8mm is used in the fuel pump for motor vehicles.	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown
8481.90.90	7	Valve spring retractable by mechanical drive, non-cellular rubber (H-NBR) with a copper alloy body, height 20 mm, for passage of the thread M6X0,75 mounted on the gas supply coupling of the air conditioning system of automobiles .	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown
8481.90.90	8	Disc stainless steel, cold drawn with greater external diameter 15 mm, length 8.85 mm, resistant to gasoline, ethanol and mixtures thereof, with a maximum level of 0.040 mg per unit of contaminants mounted pressure regulators vehicles flex-fuel internal combustion engines of the Otto type.	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown
8483.40.90	6	partial semicylindrical shape plastic spur gear with stainless steel and stainless steel metal insert impeller having a maximum diameter of 36,5mm 54,35mm and height, working temperature -40graus Celsius 125graus + Celsius minimum torque 12 Nm	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown
9027.90.99	1	Sensor wide band type and / or linear with time of light off less than or equal to 12s composed of a ceramic sensor element used in the oxygen concentration sensor (O2) (Lambda sensor) for measuring the exhaust gases from the internal combustion engine of automotive vehicles. Equipped with ceramic substrates (laminated and sintered) porous ceramic protective layer (protection against thermal shock), internal and external electrodes; heat resistance equal to or less than 8 ohm connector comprising six (6) terminals, two heating terminals 4 and electrical contact terminals to the signal generated by comparing the oxygen concentration in the exhaust gases and atmospheric air.	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown
9031.80.99	64	Sensor warning using the safety belt, comprising a membrane, which in turn is composed of two formed film plastic PET or PEN with printed load sensors them into carbon and silver, and an adhesive for fixing the structure bank consisting of plastic and paper backing with milesimais dimensions, having a drive load of 7N to 25N range, maximum resistance of 100 ohms and maximum current of 15 mA.	CAMEX Resolution No. 23 of December 30, 2019.	2	Unknown
9032.89.82	20	electronic sensor solar capture to control the air conditioning system, used in passenger cars, maximum voltage 5 volts, weighing 10g, with electrical connector 2 pin, resistor, with plastic housing and outputs dedicated to the control center electronic air conditioning system.	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown

Included in the Anex II					
NCM	N° Ex	Description	Regulation	Tax	Deadline
8483.40.10	8	synchronized drive module 2 speed, equipped with left and right brake service wet multidisc type, mounted on the front axle grain harvesters, with reductions of 6.4: 1 to 2.35: 1, the maximum input power 350 kW and a maximum speed of 4000 rpm input.	CAMEX Resolution No. 23 of December 30, 2019.	2	Unknown
8483.60.90	6	Couplings made of PA12-CF15 (nylon and carbon fibers), provided with steel in the center toothed protrusion, used to attach motor and pump HST transmits engine power to the pump and absorbs torsional vibration to protect the transmission system applied in self-propelled machines.	CAMEX Resolution No. 23 of December 30, 2019.	2	Unknown
9032.89.89	5	electronic control unit used in the regulation and autopilot control of agricultural machinery, for managing data received from the sensors and actuators with dedicated software for automatic driving system, this management is based on GNSS information (Global Navigation Satellite System) where has integrated precision gyroscope and accelerometers, as well as modem for communication via mobile and input and digital and analog outputs, and communication via CANbus 2.0 protocol and RS232 via DIP-controlled signals in closed-loop, real-time and access volatile and non-volatile memories.	CAMEX Resolution No. 8 of January 30, 2020.	2	Unknown

Included in the Anex I in "Resolution No. 23 of December 30, 2019"

TITLE: LIST OF AUTO PARTS FOR THE PRODUCTION

NCM	N° Ex	Description	Regulation	Tax	Deadline
4016.93.00	19	A sealing ring of rubber resistant to fuel, flexible in the temperature range of -40 degrees Celsius to 150 degrees Celsius with application Talc M400 Neutral Technical surface.	Resolution No. 23 of December 30, 2019	2	Unknown
4016.99.90	10	calibrated vibration damper consisting of vulcanized rubber and metal elements used in motor vehicle steering wheel.	Resolution No. 23 of December 30, 2019	2	Unknown
8302.30.00	8	Sintered threaded connection for oxygen sensor with surface roughness of Ra5 and flatness of 0.2 mm, sintered stainless steel, its function is to ensure the mounting of the oxygen sensor which sensor measures the O2 concentration in the exhaust gas, applied in exhaust system of motor vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8414.80.21	3	Turbocharged air with variable turbine geometry, with pressure control obtained by varying the area of a set of guide vanes which slide axially and manages the flow of exhaust gas, actuated by an external pneumatic or electronic actuator used in diesel engines internal combustion.	Resolution No. 23 of December 30, 2019	2	Unknown
8414.90.39	56	Set stem exclusive connection between the actuator and electronic system that controls the opening and closing of the variable geometry system of the fins used in turbochargers air fed by exhaust gases from internal combustion engines of automotive vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8481.10.00	25	Pressure valve for internal use in the system ABS (Anti-lock Brake System) and ESC (Electronic Stability Control), which together with the motor pumps the brake fluid back to the master cylinder reservoir.	Resolution No. 23 of December 30, 2019	2	Unknown
8481.80.92	39	solenoid valve 12V voltage used in the ABS brake system (anti-lock brake system) for cars and light commercial	Resolution No. 23 of December 30, 2019	2	Unknown
8483.30.90	10	Friction thrust bearing assembly sealed with non-metallic friction element capable of supporting loads of 7.0 tons GAWR axis and moderate ability to support radial loads to heavy commercial vehicles. With minimal outer diameter = (57.0) mm, maximum outer diameter = (57.2) mm, a minimum inner diameter = (34.0) mm, inner diameter = max (34.3) mm and a height = (15 75) mm maximum height = (16.25) mm. Guide with a maximum diameter (40 K7) mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8501.31.10	25	electric motor to charge to the steering system with electric kind assistance (EPS), with output torque between 2,90N.m and 4,70N.m and engine power ranging between 400W and 700W.	Resolution No. 23 of December 30, 2019	2	Unknown
8545.20.00	8	Carbon brush with the commutator 0.05 mm flatness of the contact face squareness of 0.05 mm between the contact face and brush profile, the maximum roughness Rz 40microns, a width of 4 mm +/- 0.05, compared flat profile 7 mm + -0.05 1.33 CpK <sup>3</sup> , thickness 4.5 mm and width -0.04 -0.14 -0.04 -0.14 5.8 mm both measures CpK <sup>3</sup> 1.33 .	Resolution No. 23 of December 30, 2019	2	Unknown
8708.50.99	43	Housing in cast iron, used in the transmission axle for trucks and buses with maximum vertical load capacity of up to 18 tons, minimum dimensions: length 1,600mm; Height 400mm; 6mm thick.	Resolution No. 23 of December 30, 2019	2	Unknown

8708.91.00	12	Shaft endless helical thread and double rolled for engagement of mono- and double reduction wiper motor with concentricity between 0.003 and 0.004 mm and accommodation contact stops on the ends and axial retention ridges.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.92.00	13	stainless steel tube containing interlaced connectors used for connecting different parts of the exhaust system, with a length between 82 and 220 mm and diameters between 86 and 103 mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.92.00	14	Section of the exhaust pipe to exhaust gases from the combustion, consisting of a rigid part of carbon steel with surface treatment of aluminum and other flexible corrugated stainless steel AIS304 and 409.	Resolution No. 23 of December 30, 2019	2	Unknown
3919.90.90	3	Joint made with foam polyurethane base material with closed cells with double sided tape, ensuring sealing the product water for 20 hours or more, while maintaining the physical characteristics and unchanged mechanical after compression, cut as required design for the box for ventilation / cooling / heating (HVAC) with added special double-sided tape for use in polypropylene and low VOC.	Resolution No. 23 of December 30, 2019	2	Unknown
3926.30.00	8	Set internal opening control ports comprises injection molded plastic parts (casing and painted handle) steel shaft, spring steel, rubber stopper and grease mechanism with mechanical drive for internal door opening front and rear of motor vehicles, 114,6g with weight and dimensions of 160,4mm x 86,7mm x 47,7mm.	Resolution No. 23 of December 30, 2019	2	Unknown
3926.30.00	9	Set internal opening door control, comprising molded plastic parts (casing and chrome handle) steel shaft, spring steel, rubber stopper and grease mechanism with mechanical drive for internal door opening front and rear motor vehicle , weighing 111.6 g and dimensions of 160,4mm x 86,7mm x 47,7mm.	Resolution No. 23 of December 30, 2019	2	Unknown
4006.90.00	1	Contact translucent black rubber with high resistance to high and low temperature hardness between 50 and 70 ± 5HS, maximum load 7.84 MPa in dimension of 224 x 26.6 mm, 120.4 mm or 34.6 x 56 18.1 x 3 mm, range ± 10 mm, gold or copper compound for electrical continuity between the components.	Resolution No. 23 of December 30, 2019	2	Unknown
4016.93.00	17	Joint sealing rectangular 2.6 x 1.1 mm EPDM produced, with a length of 303 mm to 783.4 mm and tolerance of + 2.0 / -1.0 mm; free of burrs, warping and twisting of the section around its perimeter; used in automotive radiator manufacturing with the function to seal the connection between the tank and the hive.	Resolution No. 23 of December 30, 2019	2	Unknown
4016.93.00	18	Gasket Retention of circular geometry, with or without rib, with permissible outer diameter between 100 mm to 115 mm and a total thickness of 0.38 mm or 0.84 mm, soul laminate comprising low carbon steel with a rubber coating on both faces compressors applied to automotive air conditioning system.	Resolution No. 23 of December 30, 2019	2	Unknown
7315.11.00	1	Current metal made of carbon steel with heat treatment carburizing and quenching with 6.35 mm width x 5,72mm diameter rollers and step rollers between 9,525mm, with a total weight 0.163 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
7315.12.10	1	precision metal steel chain for use in automotive timing system components with hardness of 420HV to 750HV and 7mm pitch between 9,525mm and with thermal treatment process with addition of carbon the pins in order to ensure necessary hardness for the application.	Resolution No. 23 of December 30, 2019	2	Unknown
7318.15.00	8	Pin rod of high carbon content steel made by dehydrogenation, cooling, and temper treatment with chrome dimension ref. 60 and 54,5mm x thickness 3.9mm, maximum load 1480MPa, use in automotive gear shift lever.	Resolution No. 23 of December 30, 2019	2	Unknown
7318.16.00	9	pinion flange nut with thread size M42 to M60; 17,0mm height 24.5 mm; between the faces of the hexagonal 55,2mm 75,0mm, 73,5mm the flange Ø 100,5mm.	Resolution No. 23 of December 30, 2019	2	Unknown
7318.16.00	10	Adjusting nut hub bearings, hexagonal piece with internal thread sizes between hexagonal faces 66.0 mm to 102.0 mm; internal thread 2.1250 "to 3.2500"; thickness 7.5mm to 10.0mm.	Resolution No. 23 of December 30, 2019	2	Unknown
7326.90.90	6	Steel clamp with heat treatment and austempering, electrolytic zinc-coated in a normal, closed-size (in lock) 80.8 to 87,8mm height, width 45.5 to 52.5 ± 0.5 mm, and lock strength of 30N-70N, automotive use, for coupling in the steering column.	Resolution No. 23 of December 30, 2019	2	Unknown
8301.20.00	1	Control plate, mechanical or electrical, sliding side doors for vehicles M2 / N1 / N2, consisting of cables, levers and rods transferring the opening movement to the inner and outer door latches	Resolution No. 23 of December 30, 2019	2	Unknown

8301.20.00	2	Set front cover lock mechanism with mechanical actuation for locking and unlocking the front cover of motor vehicles, consisting of steel base support, latches, levers and steel safety hooks, steel rivets, stainless steel springs, with or without contain injected plastic components.	Resolution No. 23 of December 30, 2019	2	Unknown
8301.20.00	3	Set of outer opening command back cover with an internal mechanism with electromechanical drive for locking and unlocking the rear of motor vehicle doors, consisting of housing (body) plastic injected PP GF30 + PET (40 shoreA) injected back cover polyacetal (POM ) injected piston polycarbonate (PC), stainless steel compression spring 1809 X 10 Cr Ni UNI 6900-71, silicone keyboard and contacts CuZn33 H125 Ag + Ni 90 10 90-130 HV, 45g weight and dimensions: (30mm x 79,9mm x 41,3mm)	Resolution No. 23 of December 30, 2019	2	Unknown
8301.20.00	4	Set locking lock mechanism and unlock the front of motor vehicle doors, consisting of electric motor, steel wires with ferrule zamak injected plastic parts, rubber components, locks, retaining plates, pins and springs made of steel, shaft seals and grease, with automatic locking after the vehicle is in shooting (greater than 20 km / h), the dimensions 0,550ge weight 116,8mm x 71,1mm x 220mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8301.20.00	5	Set of door lock and key enabling the opening and closing of the driver's door failure in the automatic opening system of the vehicle, made of Zamac 120g, alpaca 20g, other metals 35g, thermoplastic 25g, elastomers 8g and totaling a mass of 0208kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8301.20.00	6	Set of keys and locks the door and ignition to allow opening and closing of doors and windows and drive ignition to start the vehicle; manufactured in Zamac 690g, alpaca 40g, 36g brass, stainless steel 5g, 40g steel, thermoplastic 50g, 16g elastomers, electronic components and battery 22g and totaling a mass of 0,899kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8301.60.00	11	Board which enables the transmission of movement, locking / unlocking and opening / closing sliding door lock weighing 340g, comprising a metal body with SPFH540 MFZn8-C coating (78,3g), NBR damper hardness 70 - Shore A ( 4g), SAPH370 retaining plate MFZn3-C coating (77,6g) and small components (springs, grease, fasteners, lock) containing cable assembly with a specific length and a total weight of 75g, enabling locking and unlocking the tailgate and for the opening, the transmission of movement is accomplished through the cable.	Resolution No. 23 of December 30, 2019	2	Unknown
8301.60.00	12	upper and lower lock rear door that allows its locking and unlocking, opening and closing, having upper lock with 509g weight, the lower lock weighing 431g, comprising a plastic body POM (27 g), NBR shock with hardness 70 - Shore a (4g) hangs over-injected elastomer 55 Shore D (127 g) with steel retaining plate (18,8g) and small components (springs, grease, fasteners), with a specific cable length (diameter 1 25 7x7 stainless steel, POM, PVC) weighing less than 9g.	Resolution No. 23 of December 30, 2019	2	Unknown
8301.60.00	13	Limiters front and rear doors; retention mechanism with the function of the door system in a pre-prescribed positions in motor vehicles measuring approximately 147,7mm x 82,2mm x 43mm composed of injected plastic parts rubber steel and grease seal located in the inner region of the front and rear Weight 160,2g	Resolution No. 23 of December 30, 2019	2	Unknown
8301.70.00	3	Key "Key Less Entry and Start System" with locking buttons, unlocking, opening the trunk, remote control electronics, "chip", retractable key blade, bearing, "push button", pin tensioner-spiral spring and twisting housing with lid, battery compartment, upper and lower package (split) side cover and top cover.	Resolution No. 23 of December 30, 2019	2	Unknown
8302.30.00	6	suspension cushion support in Gear box made of steel casting G550 + vane for use in a compression ignition engine vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8302.30.00	7	Support core engine suspension manufactured in engagement link AISi9Cu3 aluminum injection (FeZn) for use with vehicle engine ignition	Resolution No. 23 of December 30, 2019	2	Unknown
8408.20.20	5	Diesel engine, in-line 6-cylinder, 12,8L, turbo diesel engine with high pressure common rail injection system, with power up to 390kW with 2600Nm torque at 1600 rpm, with block and cylinder head cast iron and other metallic materials and components polymers, for trucks and buses.	Resolution No. 23 of December 30, 2019	2	Unknown

8408.20.90	1	4-stroke engine 6-cylinder internal combustion line Diesel cycle with a total volume of 10.8 liters containing 24 valves actuated by two valve commands positioned on the head one for intake and one for exhaust generating a maximum power of 299 hp (220 kW) at 1,675 rpm and maximum torque of 1,350 Nm between 900-1400 rpm equipped with direct fuel injection system "common rail".	Resolution No. 23 of December 30, 2019	2	Unknown
8409.91.11	6	Set steel rod HS35DAV forged responsible for transforming the linear movement of the piston in crankshaft rotation, applied in motor vehicles with internal combustion engine, with a wheelbase of 142.5 mm and hardness of between 23-30 HRC; comprises two screws MB12 material of high resistance.	Resolution No. 23 of December 30, 2019	2	Unknown
8409.91.90	60	Calibration tube with smaller largest outer diameter 4.15 mm and outer diameter of 3.85 mm, taper for insertion calibrated force between 40 N and 250 N, the total length of 7.0 mm and an average thickness of 0, 6 mm, manufactured by microestampagem process equipment UNI EN X5CrNi18-10 1008B-2, used in fuel injectors for automotive internal combustion engines of the Otto type direct fuel injection.	Resolution No. 23 of December 30, 2019	2	Unknown
8409.91.90	61	Seat fuel injector valve sealing, weighing approximately 0.66 g, is used to guarantee the tightness of the GDI direct injection systems in internal combustion engines for automotive vehicles; made with specific dimensional tolerances obtained by means of powder metallurgy process for atomization and for metal injection molding (MIM) on a metallic cylindrical body, with dimensions of approximately 5.9 mm diameter; 5.4 mm in height and internal profile rectified.	Resolution No. 23 of December 30, 2019	2	Unknown
8409.91.90	62	flexible board that connects the output of the engine crankshaft to the input of the torque converter input shaft of the automatic transmission of the vehicle, made of carbon steel heat treated to toothed ring with a diameter of 291 mm x 26 mm thickness and 3.92 mass kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8409.99.12	4	cast iron block for diesel engine and compression ignition internal combustion four cylinders in line, with 4 liters working volume of 7.2 liters for the production of truck and bus engines with power of 110kW to 160kW, weight 150 kg, with a 102mm inner diameter of the combustion chamber 106 mm responsible for sustaining engine components.	Resolution No. 23 of December 30, 2019	2	Unknown
8409.99.99	37	flywheel housing of cast aluminum weighing between 33kg to 22,8kg, for use in compression ignition (diesel) engines for trucks and buses vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8409.99.99	38	Set counterbalance compound Diesel engines by two helical gears with diameter up to 105 mm, mounted on cast iron housing, unbalanced masses, the total weight up to 13 kg lubrication channel in the shaft of the gears, specific to the function of equalization of vertical forces of diesel engines for agricultural machines.	Resolution No. 23 of December 30, 2019	2	Unknown
8413.30.90	10	electric pump for cooling water used in commercial vehicles controlled via CAN J1939, 2.0B, with a speed of 500Kbps; degree of protection against dust and moisture minimum IP6K9K and IP67; maximum voltage of 38V operation and maximum power of 500W.	Resolution No. 23 of December 30, 2019	2	Unknown
8413.30.90	11	mechanical water pump of the cooling system, the cast iron housing for a diesel engine, in-line 6-cylinder, with a flow of 8.2 liters / second, weighing 13 kg, outlet diameter of 60 mm and with input oblong 48x74mm, applied to trucks and buses.	Resolution No. 23 of December 30, 2019	2	Unknown
8413.50.90	1	Arla injection pump 32 weighing approximately 1,570 grams operating at temperatures higher than -5 degrees Celsius and which has the function to receive the tank Arla perform the process of filtering and pumping unit for dosing a pressure of 8.5bar.	Resolution No. 23 of December 30, 2019	2	Unknown
8413.60.11	7	electro hydraulic pump for use in steering box for electric or hybrid vehicles, with two hydraulic pumps and two electric type brushless motors (brushless), protection against dust and moisture (minimum IP6K9K and IP67), controlled via CAN 2.0B with J1939 speed configurable 250 and 500Kbps, maximum working pressure of 150bar to 180bar, lower than or equal to water displacement per revolution 4cm <sup>3</sup> .	Resolution No. 23 of December 30, 2019	2	Unknown
8414.10.00	2	a vacuum pump for vacuum generation necessary for the braking system in engines with direct injection, turbo compressor and variable valve timing; mainly composed of aluminum housing, internal control valves alloy steel and plastic pump connector; Approximate measurements of 160 mm x 124 mm x 79 mm and approximate weight of 0.90 kg.	Resolution No. 23 of December 30, 2019	2	Unknown

8414.90.39	40	Plate pressure used in air compressor head for commercial vehicles, comprising blades with brazed material according HN150-02 (11SMn30, SS400, # 45), valve opening and closing special steel (1 X38CrMo13 "Hiflex") and special steel plates, for maximum operating pressure up to 16 bar, specified for up to 490cm <sup>3</sup> water displacement and working temperature up to 350 degrees Celsius	Resolution No. 23 of December 30, 2019	2	Unknown
8415.90.90	27	Unit indirect condenser of the air conditioning system manufactured of aluminum with integral desiccant AW3003-0, 12V, and systems for printed circuit boards, inlet and outlet fluid connectors with brazed operates with R134a refrigerant and HF01234yf, heat exchange with mixture cooling fluid 50% / 50% coolant, loss of cooling load 188-220 mbar side refrigerant and 400-557 mbar; coolant inlet temperature 50 degrees Celsius and entered the refrigerant temperature 105 degrees Celsius; cooling rate to 11 kW, coolant flow 800-850 kg / h, cooling fluid volume of 265 ml and 270 ml refrigerant fluid, flow plates 18-8, cooling fluid inlet pressure 2.0 MPa, maximum leak 2.0 * 10-5 mbar (maximum 5 g refrigerant leak per year), the total weight up to 2.3 kg applied to motor vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8421.39.90	1	Set the rear rigid axle type banjo with a capacity of vertical load of 1800 ± 50 kg, length 1620 ± 10 mm and diameter 75 ± 10mm composed by housing, half shafts, brake components drum type and rear differential with crown 240mm diameter, satellite box 4 pinions and second planetary gears and bearing preload adjustment system for adjusting ring, applied to light trucks type pick-up with 4x4	Resolution No. 23 of December 30, 2019	2	Unknown
8424.90.90	4	Set driver nozzle scrubber water jet windscreen used to direct the jet of water on the windscreen of the vehicle, comprising the body tube outlet plate, molded valve in plastic and joint sealing, with an approximate weight of 13 g 15 g with dimensions of 23.7 mm height x 21 mm width x 52.3 mm length.	Resolution No. 23 of December 30, 2019	2	Unknown
8481.20.90	79	Valves for Pneumatic transmission fabricated metal, rubber and plastic, directional type with 3/3 function, with control "on-off" Mechanical driven lever for leveling the cab suspension of commercial vehicles through pressurization and exhaustion blocking the compressed air in the pneumatic pockets cabin, maximum working pressure of 14 bar and nominal flow up to 100 l / min.	Resolution No. 23 of December 30, 2019	2	Unknown
8481.20.90	88	Valve electric-pneumatic transmission driven by pedal, with maximum pressure of 15 bar and generation of electrical signal by pulse width modulation (PWM) with maximum current of 15 mA, for control of the electric-pneumatic commercial vehicle braking system .	Resolution No. 23 of December 30, 2019	2	Unknown
8481.40.00	1	relief valves for internal combustion engines for turbocharged spark.	Resolution No. 23 of December 30, 2019	2	Unknown
8481.80.21	2	Thermostatic valve with built-in electric heater, temperature control opening through the heating element energizing wax embedded heater, to improve energy efficiency optimized by control of engine coolant temperature; composed mainly plastic housing, wax element brass, spring cartridge heater and stainless steel compression limiting sleeve carbon steel coated with electroless deposition of nickel and zinc connector water temperature sensor; Approximate measurements of 203.70 mm x 104.40 mm x 114.36 mm and approximate weight of 0.29 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8481.90.90	5	Compound armor set of rubber and plastic weighing approximately 200g, working pressure up to 10 bar and a maximum length of 50mm, with the work function modulating valves, ABS braking systems for commercial vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8481.90.90	6	Magnetic head comprising an electromagnetic coil which, via an electrical signal performs opening and closing the air passage in the PCV valves and relays ABS's.	Resolution No. 23 of December 30, 2019	2	Unknown
8482.91.30	1	Tapered roller bearings in 100Cr6 steel with hardness 60 to 66 HRC conical geometry having the largest diameter of 6 mm to 8.5 mm and minor diameter of 5.5 mm to 8 mm, with angle range between 1 degree and 3 degrees, length of between 10 mm and 15 mm, polished surface finish with a maximum roughness Ra of 0.08 mm and a convex profile with a radius ranging between 1000 mm and 9000 mm for application in high precision bearings used in automotive vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown

8482.99.90	10	Rings compounds of metal core and special rubber coating with magnetic properties, in which are built a sequence of magnetic pole pairs arranged side by side, ranging between north pole and south pole in a quantity ranging from pairs 41, 42, 44 and 48 poles (a total of 82, 84, 88 and 96 poles respectively), the maximum reading error of 5% by poles and maximum cumulative error by 6% resistant to temperatures between -40 degrees Celsius and 120 degrees Celsius, minimum magnetic amplitude of 1.5 mT to 25 degrees Celsius and a maximum outer diameter of 65 mm, for use in high precision bearings used in automotive vehicles	Resolution No. 23 of December 30, 2019	2	Unknown
8483.10.19	9	Set S30CMS1 crankshaft steel, forged, assembled with steel balls used in vehicles with passenger car internal combustion engine, responsible for the transformation of the linear movement of the piston into rotational movement resulting in the propulsion of the vehicle with a weight of 15.4 kg, total length of 472.5 mm and 96.6 mm stroke.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.40.90	5	Variable phase axis command with sintered trilobular sprocket teeth with 0.05 mm profile line of tolerance, surface roughness 1.6 RA and hardness 50 HRB min with springs and steel oil check valve capable of 0626 ml / ° integrated for internal combustion engines.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.50.90	8	coupling floppy torque converter to the crankshaft axis, designed in special alloy steel LAX550Y620T; 290mm outer diameter, 230mm with 6 fixing holes, 2.5mm + 0.2mm thickness and geometry with disk-shaped presence of welded rack; Smaller sized to tensile and compressive stresses than 289 MPa and a higher axial stiffness to 3905 N / mm, weighing approximately 2 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.50.90	9	friction wheel with electronic actuator driven by the vehicle module in order to start and stop the operation of the water pump in the accessory system, used in lightweight line of vehicles with Otto cycle engine, made up of 0.0415 kg; Aluminum 0.100 kg; Bearing 0.206 kg for a total mass of 0653 kilograms.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.60.90	4	transmission plates in SAE J2340 550XF steel alloy with a thickness of 2.6 + 0.1 mm with 20 degree pressure angle gear ring cast iron J 403 SAE-AISI 1045 with hardened teeth with surface hardness 50-60 HRC and a plate retention steel ST-S-CRI300T; MS-1030Y thickness of 1 + 0.1mm engines used in vehicles with automatic transmission.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.60.90	5	Attenuator noise and vibration of the air compressor gear with an area of the cutouts (flanks) coated carbon (thickness 2-4 micrometer) with subsequent curing, diameter 69 mm, thickness of 9.5 mm set consisting of two plates HNBRI-60 steel with elastomer within a 42CrMo4 + QT and another case hardened 16MnCr5, which withstand temperatures up to 125 degrees Celsius.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.90.00	36	Eccentric operation AISi9Cu3 manufactured in aluminum alloy (Fe) which is an integral part of the mechanical assembly of automatic tension adjustment primary belt for use in automotive timing system with eccentricity value between 0mm to 5mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.90.00	37	Sprocket made of carbon steel powder metallurgy and ferrous alloys with surface treatment by oxidation by steam, with 18 teeth with 9.525 mm pitch for engagement with a chain pitch diameter of 54.85 mm and with a total mass of 0.140 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8501.10.19	22	Joint mechanism aluminum alloy AW-5182 (AlMg4,5Mn0,4) and electric drive 37W DC motor without electronic integrated circuit board, weight less than 1687 g drive to the drive systems of vehicle side windows, using drive to a single touch and remote control, equipped with anti-crushing function, these features being controlled by the electronic module, applied to automotive vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8501.10.19	23	18 degrees Step electric motor for use in automotive tachograph, with power excitation to 3 Watts coupled to reductive speed gearbox, with external dimensions of 30.4 x 31 x 27.4 mm and diameter gear 12 mm with 20 steps per revolution, whose maximum operating frequency is 220 Hz in the temperature range of -40 to +85 degrees; CuZn39Pb3 has gears, steel shaft and copper coils.	Resolution No. 23 of December 30, 2019	2	Unknown
8501.31.10	24	Electric Actuator controlled electronically, with 12 or 24 Volt supply voltage, current, nominal output up to 22 amps, power up to 310 Watts and travel up to 810 mm, fixed to the agricultural machine via two holes located at the ends of the rods 13 mm diameter, weighing up to 7 kilograms used in the handling and adjustment of the deflector straw chopper in agricultural harvesters.	Resolution No. 23 of December 30, 2019	2	Unknown
8505.19.10	17	ferrite permanent magnet direct current applied to the electric fan motor vehicle cooling system.	Resolution No. 23 of December 30, 2019	2	Unknown



8507.60.00	18	Set of high-voltage lithium ion 100 to 200 kWh for automotive use, with water cooling system, with a nominal supply capability 600 to 700 volts to the high voltage system, consisting of 3 or 6 batteries in order with rectangular dimensions (900-1200) mm x (600-750) mm x (200 to 350) mm ( $\pm$ 10% tolerance in measures) each and a battery management unit and energy distribution dimension ( 425-475) mm x (375-425) mm x (200 to 250) mm ( $\pm$ 10% tolerance in measurements).	Resolution No. 23 of December 30, 2019	2	Unknown
8511.40.00	3	Starting motor responsible for motor drive to the motor fuel, comprising solenoid coupled to the body armature pinion planetary gear, shaft, stator 6 poles with auxiliary poles, the rotor and support brushes power between 1 2 kW to 1 4 kW outer diameter of 72 mm armature body, operating temperature of 40 degrees Celsius to 100 degrees Celsius, minimum supply voltage of 7 V in the condition 20 degrees Celsius maximum noise of 85.5 dB (a) during the match.	Resolution No. 23 of December 30, 2019	2	Unknown
8511.90.00	40	Fixed magnetic switch core used in starter motors, made in steel, cold extruded materials XC10 according to the standard NF 35564-83, burrs are prohibited in radius between 0.5 mm to 1.5 mm without grease, without oil, no carbon deposit, no fluid extrusion or other deposited components in the areas of interface with other components areas F and G, only metal look, overall roughness between 2.5 to 4.5 micrometer, F surface free from components compatible with electric welding .	Resolution No. 23 of December 30, 2019	2	Unknown
8512.20.11	11	Front Bi halogen with changing high and low beam by mechanism with integrated solenoid valve in the headlamp, power of 60 watts and 12 working voltage up to 24 volts, fixed to the tractor by three points, with a plastic housing and lens with diameter up to 85 mm, specifically for use in tractors and agricultural sprayers.	Resolution No. 23 of December 30, 2019	2	Unknown
8512.20.23	7	right tail / left responsible for passenger motor vehicle signaling; consisting of illumination of brake lights in LED technology, position light in LED technology diffused by the light guide homogeneous and light arrow bulb, at least the upper insulation resistance of 5 mega ohms at 500 V and mass 1, 28 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8512.90.00	24	Support arm windscreen wiper pressed steel, thickness 1.5mm to 2.0mm with pin mounted for spring support and clamping cone axis of the drive mechanism of 18.9 ° named locator.	Resolution No. 23 of December 30, 2019	2	Unknown
8529.10.19	8	Antennas for signal distribution WiFi / Internet application Infotainment system / Automotive Telematics	Resolution No. 23 of December 30, 2019	2	Unknown
8533.31.10	2	electric pot with 300 degree axis travel +/- 5 degrees, shaft diameter up to 10 mm, IP60 protection level, with 4-pin connector, specific use for electric current control of electronic systems on agricultural tractors.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.41.00	5	Electronic radiator electric fan speed control module, with a display in the engine bay area, having two encapsulated relays and a printed circuit board.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.50.90	50	The pressure switch "type Stop" to light drive circuit stop vehicle propulsion compression ignition engine.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.50.90	51	Switch by pressing the 'type Stop' to light circuit drive stop in automotive vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.50.90	52	Electrical contactor injected plastic PA6-GF50 + Cu37Zn / PET for disabling the cruise speed and the command (Start and Stop) and for use in compression ignition engine.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.50.90	53	multifunction control switching key, installed on the steering column for direct control (10 A) or indirect (20 mA), with direction arrow functions, switching on of headlights, wipers front windshield and rear, horn and steering wheel controls , applied to automotive vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.50.90	54	Sensor electronics with working voltages 12-32 V to be mounted in cubicles, with a maximum working current of 200 mA used in wiring and electronics for commercial vehicles; dimensions of 10 mm x 25 mm x 262 mm (height x width x length) and approximate weight of 0.2 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.50.90	55	electromechanical sensor 12 V operating voltage to be mounted on the brake pedal, used in the wiring for motor vehicles; with dimensions of 88 mm x 28 mm x 46 mm (height x width x length), weight approximately 0.05 kg.	Resolution No. 23 of December 30, 2019	2	Unknown

8536.50.90	56	Set of external opening tailgate command button to electric drive to open the trunk, composed of housing (body) plastic injected with polyurethane cover, back cover and piston in injected plastic, stainless steel compression spring, flooring silicon, nickel and tin contacts and electrical connector 45g weight and dimensions of 79.9 mm x 41.3 mm x 30 mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8536.50.90	57	electromechanical module applied to the steering column to provide the driver with access to steering change commands (arrow), switching on of headlights, windshield wipers, rear and horn glass, offers radio controls and limiter and cruise control, has interfacing with the electronic communication distance for locking and unlocking the door key and the communication with the transponder antenna key for starting the engine, with dimensions of 410mm x 120mm x 125mm, 48g composed of electronic components; thermoplastic 225g; steel 6g; forged steel 5g; zamac (Zn-Al) 6g; stainless steel 46g; brass 5g; 25g copper; 0.5 g tin; 0.5g elastomer; Gold 0.5g; 0.5g other precious metals; Zinc: 0.5g.	Resolution No. 23 of December 30, 2019	2	Unknown
8537.10.90	28	control multiple functions of the center console unit, built in PA66 hard plastic and electronic circuits, making USB 12V, cigarette lighter, switches and buttons, applied to motor vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8537.10.90	29	Drive controller of the air conditioning system of the vehicle, with one temperature zone with 3 knobs, keys 2, first lever position, with dimensions of 333.7 mm x 224.4 mm from the lower base to the center of the upper clip x 222.3 mm and weight between 850 g and 890 g	Resolution No. 23 of December 30, 2019	2	Unknown
8537.10.90	30	Unit controlling the air conditioning system of the vehicle with one temperature zone with 3 knobs, keys 3, with dimensions of 305.8 mm x 189.6 mm x 124.6 mm and weight 770 g	Resolution No. 23 of December 30, 2019	2	Unknown
8537.10.90	31	Unit controlling the air conditioning system of the vehicle with one temperature zone with 3 knobs, keys 2, first lever position, with dimensions of 372.8 mm x 234.8 mm x 189.5 mm and weight of 850 g 890 g	Resolution No. 23 of December 30, 2019	2	Unknown
8537.10.90	32	Control panel, made of polypropylene consisting of keys to control raising and lowering of the air suspension system of the vehicle by pressurizing the air bags, control dimensions are 124.5x72.65x9.7 [mm], connected by a coiled cable and a 6-way connector at the other end, + 24V working voltage with - 25% DC with a thermal operating range of -40 degrees Celsius to +70 degrees Celsius.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.94	7	Button injected polycarbonate (PC) black with glossy black 11bk01 painting, cutting the writing laser vaporization 11bk01 printing application ref dimension. 10,2x8,8 ± 0.05mm for identification and trigger various functions set for the air conditioning module.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	24	type hydraulic bottle jack, with main shaft steel C45 EN-10083/180 + 40HB, the maximum load capacity of 2500 kg without action height 160mm, maximum height: 423,5mm, used to raise the car to exchange steppe with wheel key extractor or central rim finish towing hook levers to remove the fifth wheel.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	63	Set for the panoramic roof lining of motor vehicles, aluminum structure with electrical opening system bulkhead made of fabric containing electric motor drive 12 V and harness for connection dimensions of 1505.31 mm in length, 823.24 mm wide and 950 mm width and 5,382 g weight.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	114	Cabin vibration damper pneumatic bag with a maximum diameter of 140mm and a maximum pressure of 10 bar, with internal leveling valve, power connectors pneumatic type push in / push out and slide bearing rods with the ends; 296mm distance between rods with bushing holes when the pocket is compressed and 379mm when the pocket is open.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	115	Cabin vibration damper with air bag maximum diameter of 140mm and a maximum pressure of 10 bar, pneumatic supply type push in / push out connectors and rods with sliding sleeve at the ends, the stems have a distance between 257 mm bushing holes when the pocket is compressed to 379 mm when the pocket is open.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	116	Support left external rearview mirror and / or right with automatic folding composed plastic body Pamxd6 (gf + PD) 55, metal screws treatment mfzn2-c, drive gears Pom plastic movements, spring steel with surface treatment Mfzn2 -hc, Cr rubber gasket with hardness 50 + -5 mm, wire harnesses and driven by DC motor with full power of 0.66 watts with operating voltage range of 9.5 ~ 16.0 V and voltage V 13.5 V, applied to automotive vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown

8708.29.99	117	Cantilever the seat belt fastening, transferring the opening movement and the closing lock by inserting or ejecting the tongue, composed of plastic parts manufactured in materials Derlin 500 and Ultradur B4500, with dimensions of 13.55 x 37.8 mm , flame resistant as standard FMVSS (Federal Motor Vehicle Safety Standard) at 302; dimensional workpiece after application 95Graus Celsius temperature can not be greater than 0.2 mm deviation in relation to the current dimension.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	118	Guide height adjustment system of the vehicle safety system, manufactured in two versions, with approximate dimensions of 23 x 64 mm, the first of injected plastic, POM Delrin 500T or Hostaform C9021 material, flame resistant as FMVSS standard (Federal Motor Vehicle Safety Standard) at 302, and the second pressed steel, EN1706 AISi12Cu1 materials (Fe), resistant to corrosion standards DIN 50021 SS, alternative NF X 41002 or ASTM B 117, both supporting 100,000 cycles.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	119	external handle to consist automotive vehicle plastic pamxd6 (gf + md) 42 and provided with terminals for compound harness C2600, wires, tube and PVC adhesive and electronic connectors drive 8-pin plastic - Black PBT / bpt GF15 gray plate electronic PCBA - PCB antenna - base copper coil terminals c2680, adhesive functions of locking and unlocking access.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	120	Bed latch (tread head), made of cast aluminum, instant supporting torsional loads of up to 150 Nm without failure, being a component of the motor vehicle safety system.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	121	Set of curved trim pieces in polycarbonate and ABS / PC plastic painted in glossy black (Piano Black), located on the instrument panel, with dimensions of 840 mm x 270 mm and paint protection against sunlight (UV PV0900042 and PV10004) with weight 0338 kg, component applies chromium satin polycarbonate and plastic ABS / PC with dimensions of 85 mm x 20 mm and weight 0.003 kg set of drivers air fins composed of polycarbonate and plastic components PA + GF50 and internal opening and closing mechanisms of the air system, with dimensions of 200 mm x 60 mm and weight 0230 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	122	Set of finishing components in high standard located in the rear region of the central console with armrest function and door internal objects with opening and closing system supporting arm coated fabric with attached inner foam, internal compartment for objects polycarbonate and plastic (PC / ABS-GF20) coated with vinyl glazed at the base, backbone assembly and polycarbonate plastics (PA66-GF50) with set dimensions (386 mm x 322 mm) and weight 1.947 g.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	123	Accommodation for lock actuation mechanism sensor seatbelt in the event of a vehicle crash; crystalline thermoplastic resin made of polyoxymethylene (POM Duracon SX-35), working temperature of between -40 degrees Celsius to plus 105 degrees Celsius (<50% moisture), dimensions: width 10.5 mm; length 19.6 mm; height of 10.0 mm and weight of 0.22 g.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	124	Bed responsible for the collection of inertia balls pretensioner mechanism motor vehicle safety belt; Application of bodywork made of stamped steel St4, surface treatment with DIN EN 12329 - Fe / Zn8 / A maximum weight of 26 gr.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.99	125	Lever made of polyoxyethylene Methylene in operating temperature between - 40 degrees Celsius to plus 105 degrees Celsius (POM Delrin 100P CN 010) applied in sensor that integrates body mechanism responsible for pre-tensioning which blocks the travel of belt, during the vehicle collision.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.30.19	4	Brake pads with dimensions of 123,15x54,20x15,10mm to set the brake disc Ø 257x22mm ZOHØ54-containing reinforcing sheet of low carbon steel, cylindrical projections and the friction material with organic / mineral fibers.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.30.19	5	Brake pads with dimensions of 82,10x49,6mm (33.70 + 15.9) of the brake ZOHe-BIR-III-Ø38 Ø270x9mm disc plate containing low carbon steel and friction material with organic / inorganic fibers , mineral abrasives, solid lubricants, connected by hardened resin term.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.30.19	6	Brake pads with dimensions of 115,7x54,55x18,2mm, the front disc brake ZOHeØ57x Ø282x25mm containing platelets low carbon steel and friction material of organic fibers / inorganic, mineral abrasives, solid lubricants, connected by cured resin term and painted in black with synthetic enamel.	Resolution No. 23 of December 30, 2019	2	Unknown

8708.30.90	55	Electromechanical Actuator (MGU) for actuation and release of the parking brake lever rear electric drum-type parking brake system (EPB) integrated operating temperature from -40 degrees celsius to + 90 degrees Celsius, the voltage range 8 V to 17 V, the drive time between 1.15 and 2 s (0-40 degrees Celsius), minimum force of 1100 N acting net weight equal to or less than 0.8 kg, and applying the brake drum diameter 180 mm to 331 mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.40.90	76	Control gear changes to the transmission type CVT used in passenger cars, with dimensions of 352mm to 442mm (+/- 5mm) x 228mm to 278mm (+/- 5mm) x 131mm to 138mm (+/- 5mm) and weight 0.980 kg to 1,390 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.40.90	77	Tube with deep-drawing steel in DD13 total length of 145 ± 1 mm, the base flange Ø 129-0.2 mm, Ø 3 with stepped internal Ø81 + 0:12, Ø72.6 + Ø70.025 ± 0.2 and 0:08, 5 staggered external of 111.5 ± 0.5, ± Ø85.05 0:06, 0:06 ± Ø84, Ø74 Ø57-0.13 ± 0:06 and without any machining after the printing and phosphate coverage.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.50.80	28	Set axle shaft of the transmission used in passenger motor vehicle to transfer gearbox torque to the wheel shaft comprises at HS50BCMHV, balancer weight hoods, latches, fixed and sliding joints, rings.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.50.80	29	electrified rear axle with a maximum capacity of 13 tons (on the shaft) portal-like suspension, disc brakes, integrated bumpers and electric engine, with composite engine by two three-phase motors directly integrated into each wheel, respectively (one per wheel) and protection index IP6K9K, rated voltage of 650 V system power 250 kW (peak) and dimension (end to end) 2277 mm consisting bus application with steel, aluminum, plastic and copper.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.50.80	30	Set rear axle for motor vehicles, consisting of steels and alloys, aluminum and rubber. comprises brake supports, stabilizer bar, differential axle shaft assemblies, the suspension support frame, and drives left and right brake calipers.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.50.99	40	Semi-axles for light commercial vehicles for torque transmission transfer case to the front axle, and front to front wheel shaft, provided with gasket fixing joint SX33 with maximum torque capacity of 3330 Nm and sliding pivot joint DOL37 with maximum capacity of torque 3700 Nm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.50.99	41	Cover mechanism with four holes sized Ø 6.80 mm +/- 0.40 mm, between holes 45.0 mm x 45.0 mm +/- 0.20 mm, height 7.5 mm in the central region 14.0 mm, the face height to the center of the threaded hole 9.5 mm to 20.5 mm threaded hole M12 x 1.5 mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.50.99	42	Cover square geometry diff-lock with dimensions of four holes of 9 mm +/- 0.2 mm leas on a 98 mm +/- 0.25 mm, height 22.0 mm in the central region of +/- 1 , 0 mm; face height to the center of the threaded bore 30.0 mm +/- 0.5 mm threaded hole M12 x 1.5 mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.80.00	19	Support assembly of the rear suspension, of carbon steel with anti-corrosion paint used as the main element of fixation of the rear suspension on the body, characterized as part of the suspension of motor vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.80.00	20	Cushion damping suspension of the commercial vehicle, vulcanized rubber with steel and cast internal layer consisting of upper and lower cushioning relating GGG 60 F 3201, internal plates in ST42 material coated elastomer, weighing 12.84 kg Height 142 mm, width 157 mm and length 268 mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.92.00	11	Exhaust lowering compound internally monolith coated for treating gases as standard EURO5, filter particles and external components in stainless steel alloys, support for sensors in FR 1 4511, pressure tube for entries with outer diameter of 60 mm, hooks tubes and envelope EN 1 4512; flange thickness of 8 mm and made of flexible element S235JRG inner diameter 45 mm, outer diameter 82 mm and length 135 mm; complete piece has a nominal weight of 9.75 kg and approximate external dimensions: 1,050 mm x = y = z = 450 mm and 400 mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.92.00	12	tight flexible element (convoluted) with vibration damping screen, made of two stainless steel compositions used in truck and bus exhaust system for damping vibrations of the differences between the engine and the vehicle chassis.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.94.83	4	Power assisted steering electrically box (EPS) having rack technology with zone recirculating ball and engine interface with rack via belt (Belt Drive EPS), sensors, electric DC brushless motor with torque between 5.0 Nm and 7.0 Nm, force action on the rack between 9 kN and 12 kN, connectors and torsion bar, used in automotive light utility vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown

8708.99.90	61	Support lower step stirrup comprises two stamped steel plate and welded in opposed position with reinforcement plates which weld nuts are secured, with the function of performing the mounting interface between the lower bracket and the fixed supports the longitudinal beams, weighing 3,7kg and measuring 505mm x 194mm x 46m.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	62	electrical contactor injected plastic PA6-GF50 + Cu37Zn / ETP to cruising speed and disabling command Start and Stop and use in engine ignition spark	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	63	Pedal electronic throttle built into a single body with contactless reading technology with maximum power consumption of 40mA with maximum angle of 20.9 degrees and stop resistant to the application of lateral forces up to 200N, dimensions 184.27 + / -0.2 +/- 1.6 mm x 115.2 for use in motor vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	64	Support bearing for fixing the intermediate transverse transmission end of the gear box, made of aluminum alloy, by injection molding process at high pressure and machined finish.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	65	front elastic linkage of the rear axle with simultaneous functions to hold the connection between the rear axle and body, manage the wheel plane and filter vibrations and noises having metal components, plastic and rubber type "bi-material," to reduce acoustic and vibrational noise.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	66	Set drive the manual accelerator lever comprises, pot, plastic housing fixing lever, cable and connector, with travel of lever 300 degrees +/- 5 degrees, IP60 protection level, the specific use for electric power control the acceleration of agricultural tractors system.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	67	Reservoir power steering fluid plastic compound PA66, with a total volume of 1.35 dm <sup>3</sup> height of 52 mm between the base and the seat support region with an input and an output gantry, with the distance between the center 50 mm, operating temperature of -40 degrees Celsius and 120 degrees Celsius level sensor electrical cable with DIN 76 722 type, connector MKR / S 2 "on outer end operating voltage between 12 V and 24 V, used in commercial vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	68	Set lever electronic exchange for change of direction of movement of the agricultural tractor with plastic housing and latch by reliefs on the preset position manually operated to drive the agricultural tractor in the selected direction, equipped with Hall effect sensors, indicating three possible positions the lever (forward, reverse and neutral), with optional coupling strength button direction of trade (higher intensity, neutral and lower intensity), with IP protection level 67 and equipped with whip to send the electronic signal to the module transmission control of agricultural tractors.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	69	Rush rear axle suspension system, made of alloy steel MnVS5 (manganese, vanadium and sulfur) by the hot forging process, which may or may not contain finish machined.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	70	Tube engine cooling circuit connection with oil heat exchanger, rigid mixed steel pipe with fixing welds and connection to flexible heat exchanger EPDM rubber, outer diameter 25 mm, thickness 1 mm, with surface treatment of galvanizing steel, operating temperature of -40 degrees Celsius to 135 degrees Celsius.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	71	Steel pipe for passage of checking and measuring the dipstick in the crankcase of the motor vehicle engine with internal diameter of 12mm and an external diameter of 14mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	72	Cover macal together with pins, rectangular shape, total length of 407.0 mm to 417.0 mm; overall height 135.4 mm to 138.6 mm; width 277.0 mm to 281.0 mm, 4 holes 22.0 mm to 23.0 mm and two pins Ø 8.0 mm to 8.5 mm.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	73	Multifunctional mounting bracket, injected polypropylene tough polymer with high temperature filler used with multiple fastening and guide function of the main harness, motor and battery, directing them correctly in the engine compartment, measuring 108.5 mm x 182 mm x 77.6 mm and with a total mass of 52 g.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	74	Lock for mounting batteries, composed of plastic part manufactured in polypropylene polymer with 30% glass fiber used in a battery box having predisposition to 3 battery sizes (L1, L2 and L3) dimensions (62.2 mm x 119.1 mm x 67.5 mm) with a total mass of 52 g.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.99.90	75	connection made of metal easy cutting of carbon steel, manganese sulfide and threaded on one end of M20x1.5 with 13.75 mm diameter through hole with a specific geometry for an interface between engine block and oil filter support and with a total weight of 0,053 kg.	Resolution No. 23 of December 30, 2019	2	Unknown

9026.10.29	1	level meter 12 working voltage or 24 V to be mounted cooling liquid tanks with a maximum power of 10 W working, and chain 24 V 416 mA and used in coolant level reading for vehicles automotive; with dimensions of 272 mm x 38 mm x 350 mm (height x width x length harness) and approximate weight 0.05 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
9026.20.90	26	Pressure transducer piezo resistive with varying resistivity, made of brass, used in the suspension control system of vehicle with air suspension, which is responsible for converting mechanical quantities (pressure) [bar] in voltage [V] and by keeping constant the height the chassis of the vehicle according to the load variations.	Resolution No. 23 of December 30, 2019	2	Unknown
9026.20.90	27	electronic pressure switch of the piezoelectric type for pneumatic systems with 24 V supply and resistive signal lower outlet 12 ohms when connected and greater than 100 kohm when turned off, mounted in a metal housing with plastic connector PBT reinforced with glass fiber, that meets automotive application, as standard applicable IATF.	Resolution No. 23 of December 30, 2019	2	Unknown
9026.20.90	28	oil pressure sensor for detecting combustion engines of automotive use; composed of various materials (steel, plastic); with operating pressure up to 0.6 bar; hydraulically operated, two position (open / closed); with counters for electrical signal transmission to engine operating diagnosis.	Resolution No. 23 of December 30, 2019	2	Unknown
9031.80.99	18	Detonation sensor for transforming mechanical vibration motor in electrical oscillations capable of being interpreted by the control unit, with 15KHz resonant frequency applied in the engine block of the motor vehicle	Resolution No. 23 of December 30, 2019	2	Unknown
9031.80.99	62	Electronic measuring lateral acceleration unit, longitudinal and rotational speed of the vehicle around its vertical axis, with a yaw rate sensor, acceleration and connector X1 to communicate sensor CAN bus, suitable for use in stability control systems (ESC - Electronic Stability Control) ABS brakes for trucks and buses.	Resolution No. 23 of December 30, 2019	2	Unknown
9031.80.99	63	Knock sensor for transforming mechanical vibration motor in electrical oscillations capable of being interpreted by the control unit, with a frequency of 2.5 kHz to 17 kHz applied to the motor vehicle engine block.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.21	8	electronic control unit solenoid drive, electric motor and hydraulic pump for brake fluid flow control modules antibloqueante system ABS modules brakes (Anti-Lock Brake System) and / or ESC (Electronic Stability Control), composed of board with electronic printed circuit weighing less than 0.70 kg, has 12 solenoids, a microprocessor, electrical connector of 46 pins, storage memory of the EEPROM type, processing and dedicated communication software and integrated into systems with self-diagnosis functions, safe mode, issue of fault diagnostic code, diagnosis of the electronic brake system using CAN communication network.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.21	21	Unit Pressure modulator for two or four pneumatic brake cylinders of commercial vehicles, having a relay valve, a pilot unit with inlet valve output and redundancy, pressure sensors, an electronic control unit integrated closed loop through CAN data bus.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.21	22	Electronic Control Unit (ECU) valve solenoids and cylinders EBS brake system (Electronically Controlled Brake System) commercial vehicle, capable of reading data from the pressure sensors and speed sensors, with operating voltage range V 24 + 8 / -4 and DC operating temperature between -40 and +80 degrees Celsius.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.21	23	Sensor for measuring the yaw rate / skid (Yaw Rate Sensor) for heavy commercial vehicles for passenger or cargo transport for driving assistance functions with internal microcontroller is composed of dual axis sensor for measuring acceleration and measuring the yaw / skid, with nominal voltage of 14V and mass between 0.1 to 0.3kg, the sensor is equipped with a 4-pin DIN connector (ground, power supply, CAN high and CAN low) and communication between the elements of the and the internal sensor is made by microcontroller Serial Peripheral Interface (SPI).	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.22	7	Electronic control unit (ECU) 24V air suspension with 8 inputs for sensors for processing system signals, with five outputs for solenoid valves, and first communication port via CAN up to 500KB / s for sending command level adjustments air suspension on heavy commercial vehicles to transport loads of passengers.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.25	8	Electronic Control Unit - (Exhaust Emissions Control Unit) for post-treatment of the exhaust system of heavy duty commercial vehicles for transporting cargo or people, with 24 V power supply with two or more 75-pin connectors or more, weighing between 660 and 710 g, made of steel housing with cover in engineering plastic, used to control exhaust emissions to meet the future requirements of Euro 6 (PROCONVE P8).	Resolution No. 23 of December 30, 2019	2	Unknown

9032.89.29	92	electronic controller proportional transmission frequency of rotation of the crankshaft position and speed, with operating temperature of -40 ° to + 150 ° C and maximum speed of crankshaft rotation to 8.000rpm applied in motor vehicles.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	93	electromechanical module of the engine cooling fan control, containing thermal protection system fan alloy bi-metallic fuse term second power connector (two) copies and command four (4) copies for temperature control vehicle engine operation.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	94	Radar short SRR (Short Range Radar) with a mass of 0.2 kg to 0.5 kg, 24 V, 76-77 GHz sweep frequency, bandwidth of 180 MHz to 500 MHz, for detection of objects in side regions of heavy commercial vehicles to transport cargo or passengers equipped with advanced driving assistance functions.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	95	Pressure Controller Module (Pressure Control Module - PCM) with 16 V operating voltage to 32 V, operating air pressure of 8 to 13 bar and operating temperature range of -40 degrees Celsius to +85 degrees Celsius with actuators electro for brake systems for heavy commercial vehicle passenger and cargo transport, comprised of basic cast aluminum, pressure sensors, microcontroller (Printed Board Circuit) CAN communication network, relay valve, filter, vent valve solenoid for circuit reservation inlet and outlet solenoid valves to electronic control of the brake pressure.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	96	Front camera for embedded driving assistance systems consisting of lens with horizontal viewing angle of 43 degrees, 28 degrees from vertical; image processing unit (IPU) and converter digital analog; monitors the road ahead of the vehicle, identifies obstacles and clearance regarding the boundary lines of roads, allowing alerts the driver and the command to other security systems for heavy commercial vehicles, passenger or cargo.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	97	Sensor distance (DIS) 24V for active monitoring of the road ahead of the vehicle, containing a transmitter and 76-77GHz radar receiver with integrated logic for communication via CAN bus (Controller Area Network) with the control units of embedded systems safety and driver assistance of heavy commercial vehicles passenger or cargo.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	98	Control Module trailers and semi-trailers (TCM) 28V to brake heavy commercial vehicles cargo or passenger transport systems, comprised of pneumatic relay valve control chamber for service brake control chamber for parking brake three solenoid valves (inlet solenoid valve, outlet solenoid valve, a backup solenoid valve) and a pressure sensor.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	99	Electrical Control Unit visibility (Control Visibility Unit) for commercial vehicles load or passenger weighing between 900 and 1100 g, involucrada engineering plastic, operates at 24 V supply voltage, controls current exceeding 100 A and multiple tensions for various equipment, with processing functions for serial communication, sensor inputs and HMI (Human Machine Interfaces), outputs for direction lights, electric motor, pumps and units of sound.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.29	100	electronic controllers equipped with processor, input and output circuits and programmable memories for the fuel pump control with network data type CAN Bus for management, control and diagnostics of the injection system.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.82	5	motor thermistor (temperature sensor), control of the temperature inside the cabin vehicles with automatic air conditioning system, consisting of a motor / DC fan brushless running continuously drawing air from the cabin through the temperature detection element supplying current to ATC, which then converts the current into an accurate temperature of the cabin and a resistive temperature sensor element with approximate measurements of 62 mm x 53 mm x 36 mm and weighing roughly 0.021 kg.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.89	3	Steering Angle Sensor 12 V 7 connecting pins for heavy commercial vehicles of persons or cargo transport for angular position measurement of the wheel, performs the measurement of absolute angle position and its spinning rate up to 8 complete revolutions to perform functions such as stability control, adaptive cruise control and warning lane change, consisting of a gear wheel, which rotates with the steering wheel movement, and converts it into a coded signal continuously communicated to vehicle systems through CAN network in accordance with SAE J1939 protocol up to 500 kbps.	Resolution No. 23 of December 30, 2019	2	Unknown

9401.90.90	65	Rod of the headrest with height adjustment notches, tubular, structural function, integral part of the headrest assembly incorporating the automotive seat with raw materials specified in 1035-3 + CR2 quality according to DIN 50 958, surface roughness lower than 6.3 uM, tolerance of 0.5 mm distance between notches, surface coated with chromium and chromium treatment minimum wall 0.3 uM.	Resolution No. 23 of December 30, 2019	2	Unknown
9401.90.90	66	Recliner with continuous function for automobile seats, formed by alloying constituents carbon steel laminate being reclining mechanism responsible for movement of the backrests of the front seats, the passenger and driver, with varying degree of movement of 106.1 degrees to 110.1 degrees with reclining functional characteristics and adjust the front to back and forth and safety fixing device for supporting the occupant in a collision of the vehicle.	Resolution No. 23 of December 30, 2019	2	Unknown

Included in the Annex I in "Resolution No. 23 of December 30, 2019"

TITLE: LIST OF AUTOMOTIVE spelled IN COMMON  
CLASSIFICATION OF MERCOSUR AS CAPITAL GOODS OR  
GOODS DATA PROCESSING AND TELECOMMUNICATIONS

NCM	Nº Ex	Descrição	Regulation	Tax	Deadline
8481.80.92	40	Valves modulating, high pressure, with pressure regulator for hydraulic brake systems and / or tire to ABS system (Antilock Brake System) and ESP (Electronic Stability Program), actuated and controlled by magnetic force created by electrical coils, used to restrict or allow the flow in proportion to the applied current cuts or by fixed components provided with crimped, injected, stamped and forged, molded plastic well as fine mesh filters.	Resolution No. 23 of December 30, 2019	2	Unknown
8413.60.11	24	volumetric rotary hydraulic gear pump with cast iron body with a maximum pressure of 24.5 MPa, maximum speed of 3000 rpm, maximum flow of 89.7 l / min, for use in ventilator line machines cooling system self-propelled.	Resolution No. 23 of December 30, 2019	2	Unknown
8433.90.90	24	Multiple hydraulic quick coupler type coupling comprising female connections of up to 5 3/8 inches by 4 cartridge type connections 9/16 inch, and other return line connections and power, with the support lever type aluminum weighing assembly up to 12 kilograms, suitable for connecting the cutting deck to the hydraulic system of agricultural harvesters.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.40.10	3	Transmission end of the rear axle graders applied to soil machines with reduction ratio 1.4: 1, output rotation of 184 rpm and torque of 39452 Nm.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.40.10	4	Power transmission box for the drive of the leveling ring system applied to the motor grader machine ground with helical gears, slip clutch and a reduction ratio of 1: 1.64.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.40.10	5	speed reducing transmission of the front axle of the self-propelled harvesters cereals, composed of cast steel body, spline gear lapped flange and SAE 80W90 oil with speed reduction of 9.5: 1 and capable of supporting a weight of 30 tons.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.40.10	6	speed reducing transmission of the front axle of the self-propelled harvesters cereals, composed of cast steel body, spline gear lapped flange and SAE 80W90 oil with speed reduction of 7.7: 1 and capable of supporting a weight of 19 tons.	Resolution No. 23 of December 30, 2019	2	Unknown
8483.40.10	7	speed reducing transmission of the front axle of the self-propelled harvesters cereals, composed of cast steel body, spline gear lapped flange and SAE 80W90 oil with speed reduction of 9.5: 1 and capable of supporting a weight of 27 ton.	Resolution No. 23 of December 30, 2019	2	Unknown
8708.29.19	4	Structure cabin for agricultural tractors to be equipped with or without option glass, ready to house the assembly of the other components thereof, formed of high strength steels S355J2 / EN 10025-2 where the process of manufacture of profiles is performed by longitudinal forming plates, connected by a structural weld low alloy consisting of four pillars, floor plate and flat bases (two front and two rear) for attachment of this structure to the tractor body arrangement which gives a pattern of TFO - structure protection against rollover (ROPS - Roll-over protective Structures) and protective structure against falling objects (FOPS - falling Object protective Structures), where the welded assembly is tested and validated by ISO-5700 and OECD safety standard, which meets Brazilian safety standard for agricultural machines.	Resolution No. 23 of December 30, 2019	2	Unknown
9032.89.89	4	Electronic controllers, automatic, for control and regulation commanding electronically opening and closing the hydraulic system generating displacement pressure oil to make movements with the hinged parts of the machine, make the reading of data and interpretation of values obtained from sensors and transducers, interpreting data the manual controls of the cabin, the self-propelled excavator.	Resolution No. 23 of December 30, 2019	2	Unknown