

## AGCO POWER INC.

## **EXECUTIVE ORDER U-R-050-0087**

New Off-Road Compression-Ignition Engines Page 1 of 1

Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-19-095:

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)			
2021	MSIDL06.6G6D	3.3, 4.4, 4.9, 6.6	Diesel	8000			
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Air Coo Limite	ic Diesel Injection, Turb bler, Engine Control Mo er, Diesel Oxidation Cat tic Reduction-Urea, Am Catalyst,	dule, Smoke Puff alyst, Selective	Tractor, Generator Set				

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER	EMISSION STANDARD CATEGORY			EXHAUST (g/kw-hr)					OPACITY (%)		
CLASS			NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK	
56 ≤ kW < 130	Tier 4 Final	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A	
		CERT	0.07	0.26	1	0.1	0.01		-		

**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliace with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

**BE IT FURTHER RESOLVED:** That for the listed engine models which include engines from different power categories in the same engine family, the manufacturer is complying with the more stringent set of standards from the 56 ≤ kW < 130 power categories in conformance with the incorporated Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for New 2011 and Later Tier 4 Off-Road Compression Ignition Engines, Part 1-D" adopted October 20, 2005 and last amended October 25, 2012.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed on this 16th day of December 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division

**Attachment: Engine Models** EO #: U-R-050-0087 Family: MSIDL06.6G6D **Attachment Revised:** 11/19/2020 Displacement Peak Power -Peak Power Peak Power **Peak Power** Peak Torque -Peak Torque -Peak Torque -Peak Torque Model Code Trim Config Displacement Units **Peak Power** Units Speed (rpm) **Fueling Fuel Units Peak Torque** Units Speed (rpm) Fuel **Fuel Units** OBD GHG Special Notes AWF .1120 4.9 Liters 161 horsepower 2100 120 mm3/stroke 608 lb-ft 1500 173 mm3/stroke CCV 66 AWF .981 16 Liters 154 2100 77 mm3/stroke 528 lb-ft 1500 96 mm3/stroke CCV 6.6 horsepower 49 AWF .1130 14 4.9 154 2100 121 lb-ft 1500 145 CCV Liters mm3/stroke 531 mm3/stroke horsepower 49 AWF .1083 14 166 2100 126 577 1500 162 CCV 4.9 Liters mm3/stroke lb-ft mm3/stroke horsepower 49 4.9 472 AWF .1124 14 Liters 134 horsepower 2100 104 mm3/stroke lb-ft 1500 129 mm3/stroke CCV 49 AWF .1125 14 4.9 Liters 147 horsepower 2100 115 mm3/stroke 498 lb-ft 1500 136 mm3/stroke CCV 49 **AWF** .1126 14 4.9 Liters 147 horsepower 2100 115 mm3/stroke 498 lb-ft 1500 136 mm3/stroke CCV 49 AWF .1127 14 4.9 147 2100 115 mm3/stroke 498 lb-ft 1500 136 CCV horsepower mm3/stroke 49 **AWF** .1128 14 4.9 Liters 154 horsepower 2100 121 mm3/stroke 531 lb-ft 1500 145 mm3/stroke CCV 49 **AWF** .1129 14 4.9 Liters 154 horsepower 2100 121 mm3/stroke 531 lb-ft 1500 145 mm3/stroke CCV 33 AWFC .1100 13 3.3 80 2200 83 mm3/stroke 267 lb-ft 1500 103 CCV Liters mm3/stroke horsepower 33 .1101 13 86 2200 89 285 lb-ft 1500 110 CCV AWFC 3.3 Liters mm3/stroke mm3/stroke horsepower 33 **AWFC** .1102 13 3.3 91 2200 94 mm3/stroke 273 lb-ft 1500 105 mm3/stroke CCV Liters horsepower 33 AWFC .1103 13 3.3 Liters 95 2200 101 mm3/stroke 315 lb-ft 1500 122 mm3/stroke CCV horsepower 33 AWFC .1104 13 101 104 273 1500 CCV 3.3 Liters horsepower 2200 mm3/stroke lb-ft 105 mm3/stroke 33 AWFC .1105 13 3.3 Liters 80 horsepower 2200 83 mm3/stroke 266 lb-ft 1500 93 mm3/stroke CCV 33 AWFC .1106 13 3.3 Liters 90 2200 93 mm3/stroke 298 lb-ft 1500 115 mm3/stroke CCV horsepower 33 .1107 13 99 102 lb-ft AWFC 3.3 Liters horsepower 2200 mm3/stroke 315 1500 122 mm3/stroke CCV AWFC .1111 4.4 Liters 95 horsepower 2200 72 mm3/stroke 315 lb-ft 1500 88 mm3/stroke CCV AWFC .1112 14 4.4 Liters 106 2200 79 mm3/stroke 354 lb-ft 1500 100 mm3/stroke CCV horsepower 4.4 79 321 lb-ft 1500 90 CCV **AWFC** .1113 14 Liters 106 2200 mm3/stroke mm3/stroke horsepower .1114 14 84 392 lb-ft 1500 CCV 44 AWFC 4.4 Liters 115 2200 mm3/stroke 111 mm3/stroke horsepower 44 **AWFC** .1115 4.4 125 2200 415 lb-ft 1500 117 CCV 14 Liters horsepower mm3/stroke mm3/stroke 44 AWFC .1116 14 4.4 Liters 99 horsepower 2200 74 mm3/stroke 323 lb-ft 1500 91 mm3/stroke CCV 44 **AWFC** .1117 14 4.4 Liters 106 horsepower 2200 79 mm3/stroke 360 lb-ft 1500 102 mm3/stroke CCV 44 .1118 14 4.4 115 2200 84 mm3/stroke 393 lb-ft 1500 111 CCV **AWFC** Liters horsepower mm3/stroke 44 4.4 125 CCV **AWFC** .1119 14 Liters horsepower 2200 94 mm3/stroke 415 lb-ft 1500 117 mm3/stroke 49 AWF .1142 14 4.9 Liters 166 2100 125 mm3/stroke 577 lb-ft 1500 157 mm3/stroke CCV horsepower 44 AWF .1184 14 4.4 Liters 101 2100 82 mm3/stroke 372 lb-ft 1500 106 mm3/stroke OCV horsepower 44 ocv AWF .1186 14 Liters 114 2100 90 400 lb-ft 1500 109 4.4 mm3/stroke mm3/stroke horsepower 44 OCV AWF .1249 14 4.4 Liters 103 2100 83 mm3/stroke 327 lb-ft 1500 91 mm3/stroke horsepower 44 AWF .1250 14 4.4 Liters 114 horsepower 2100 90 mm3/stroke 346 lb-ft 1500 96 mm3/stroke OCV 44 **AWF** .1267 14 4.4 Liters 103 2100 83 mm3/stroke 327 lb-ft 1500 91 mm3/stroke OCV horsepower 44 AWF .1214 14 138 2100 108 mm3/stroke 481 lb-ft 1500 135 mm3/stroke CCV 4.4 Liters horsepower 125 **AWF** .1078 14 4.9 Liters 165 horsepower 2100 mm3/stroke 565 lb-ft 1500 153 mm3/stroke CCV 49 AWF .1187 14 4.9 Liters 166 2100 126 mm3/stroke 577 lb-ft 1500 162 mm3/stroke CCV horsepower AWF .1144 14 4.4 138 2100 108 481 lb-ft 1500 135 CCV Liters mm3/stroke mm3/stroke horsepower 44 AWFC .1238 14 4.4 89 2200 68 405 1500 88 CCV Liters mm3/stroke lb-ft mm3/stroke horsepower 49 **AWF** .1246 14 4.9 Liters 148 2100 114 481 lb-ft 1500 134 CCV horsepower mm3/stroke mm3/stroke 49 AWF .1247 14 4.9 Liters 169 horsepower 2100 130 mm3/stroke 577 lb-ft 1500 161 mm3/stroke CCV 49 **AWF** .1345 14 4.9 Liters 161 horsepower 2100 120 mm3/stroke 519 lb-ft 1500 144 mm3/stroke CCV 49 AWF .1372 14 4.9 166 2100 131 mm3/stroke 549 lb-ft 1500 158 mm3/stroke CCV Liters horsepower 49 .1373 4.9 166 2100 131 549 lb-ft 1500 158 CCV **AWF** 14 Liters horsepower mm3/stroke mm3/stroke 66 **AWF** .1374 16 6.6 Liters 166 horsepower 2100 86 mm3/stroke 549 lb-ft 1500 108 mm3/stroke CCV 66 **AWF** .1375 16 6.6 166 2100 86 mm3/stroke 549 lb-ft 1500 108 CCV Liters horsepower mm3/stroke 33 .1376 13 166 2200 91 298 lb-ft 1500 118 CCV AWFC 3.3 Liters mm3/stroke mm3/stroke horsepower 49 .1377 14 166 2100 131 1500 CCV AWF 4.9 Liters mm3/stroke 549 lb-ft 158 mm3/stroke horsepower 66 16 549 lb-ft 1500 CCV **AWF** .1378 6.6 Liters 166 horsepower 2100 86 mm3/stroke 108 mm3/stroke 49 AWF .1210 14 4.9 Liters 166 horsepower 2100 127 mm3/stroke 553 lb-ft 1500 162 mm3/stroke CCV AWF .1538 14 4.9 Liters 161 horsepower 2100 120 mm3/stroke 608 lb-ft 1500 173 mm3/stroke OCV