 <b>AIR RESOURCES BOARD</b>	MOTORENFABRIK HATZ GMBH & CO. KG	EXECUTIVE ORDER U-R-034-0054 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the 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-02-003;

**IT IS ORDERED AND RESOLVED:** That the following compression-ignition engines and emission control system 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)
2004	4HZXL3.43V42	2.57, 3.43	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection			Compressor, Pump, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), 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 CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT	--	--	6.2	2.5	0.24	13	13	16

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

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 at El Monte, California on this 6<sup>TH</sup> day of May 2004.

  
 Allen Lyons, Chief  
 Mobile Source Operations Division

Model Year: 2004  
 Manufacturer: Motorenfabrik Hatz GmbH & Co. KG  
 Engine Family: 4HZXL3.43V42

Issued:  
 Revised: 3/17/2004  
 E.O. Number: u-R-034-0054

**Small Off-Road Engine Model Summary Form**

Units for Table: hp

Worst Case?	47. Model Designation	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated Torque	55. Torque Speed (RPM)	56. Emiss Control Sys
	For model	information,	3432	look	in the	enclosed	4HZXL343	V42.xls	excel file.	EM
	The worst	case engine	3432	marked in	red bold	capital	letters!!!			

**3M41**  
**VARIABLE SPEED**  
**AHZXL3.43V42**

ENGINE MODE	RATED POWER		TORQUE [Nm]	RATED SPEED [rpm]	FUEL RATE		TORQUE [Nm]	TORQUE		RATED SPEED [rpm]	FUEL RATE AT MAX. TORQUE	
	[kW]	[hp]			[mm <sup>3</sup> /h]	[lbs/hr]		[lb-ft]	[rpm]		[mm <sup>3</sup> /h]	[lbs/hr]
3M41	42.0	56.3	134	3000	46.5	7.8	156	115	1800	46.5	4.7	2.1
3M41	41.7	55.9	135	2950	46.5	7.6	156	115	1800	46.5	4.7	2.1
3M41	41.5	55.6	137	2900	46.5	7.5	156	115	1800	46.5	4.7	2.1
3M41	41.2	55.2	138	2850	46.5	7.4	156	115	1800	46.5	4.7	2.1
3M41	41.0	54.9	140	2800	46.5	7.3	156	115	1800	46.5	4.7	2.1
3M41	40.7	54.5	141	2750	47.0	7.2	155	114	1800	46.0	4.6	2.1
3M41	40.4	54.1	143	2700	47.0	7.1	155	114	1800	46.0	4.6	2.1
3M41	40.2	53.9	145	2650	47.0	6.9	155	114	1800	46.0	4.6	2.1
3M41	39.9	53.5	147	2600	47.5	6.9	156	115	1800	46.5	4.7	2.1
3M41	39.4	52.8	148	2550	47.5	6.8	156	115	1800	46.5	4.7	2.1
3M41	38.9	52.1	149	2500	48.0	6.7	156	115	1800	46.5	4.7	2.1
3M41	38.4	51.5	150	2450	48.0	6.6	156	115	1800	46.5	4.7	2.1
3M41	38.0	50.9	151	2400	48.0	6.4	159	117	1800	47.5	4.8	2.2
3M41	37.2	49.8	151	2350	48.0	6.3	159	117	1800	47.5	4.8	2.2

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**3M41**  
**VARIABLE SPEED**  
**AHZXL3.43V42**

ENGINE MODE	RATED POWER		TORQUE [Nm]	RATED SPEED [rpm]	FUEL RATE		TORQUE [Nm]	TORQUE		RATED SPEED [rpm]	FUEL RATE AT MAX. TORQUE	
	[kW]	[hp]			[mm <sup>3</sup> /h]	[lbs/hr]		[lb-ft]	[rpm]		[mm <sup>3</sup> /h]	[lbs/hr]
3M41	44.4	59.5	141	3000	48.0	8.0	162	119	1800	48.5	4.9	2.2
3M41	44.1	59.1	143	2950	48.0	7.9	162	119	1800	48.5	4.9	2.2
3M41	43.8	58.7	144	2900	48.0	7.8	162	119	1800	48.5	4.9	2.2
3M41	43.4	58.2	145	2850	48.0	7.6	162	119	1800	48.5	4.9	2.2
3M41	43.1	57.8	147	2800	48.0	7.5	162	119	1800	48.5	4.9	2.2
3M41	42.8	57.4	149	2750	48.5	7.4	161	119	1800	48.0	4.8	2.2
3M41	42.4	56.8	150	2700	48.5	7.3	161	119	1800	48.0	4.8	2.2
3M41	42.0	56.3	151	2650	48.5	7.2	161	119	1800	48.0	4.8	2.2
3M41	41.6	55.7	153	2600	48.5	7.0	162	119	1800	48.5	4.9	2.2
3M41	41.1	55.1	154	2550	48.5	6.9	162	119	1800	48.5	4.9	2.2
3M41	40.7	54.5	155	2500	49.5	6.9	160	118	1500	48.5	4.1	1.8
3M41	40.3	54.0	157	2450	49.5	6.8	160	118	1500	48.5	4.1	1.8
3M41	39.8	53.3	158	2400	49.5	6.6	160	118	1500	48.5	4.1	1.8
3M41	39.1	52.4	159	2350	49.5	6.5	162	119	1800	48.5	4.9	2.2

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**3M41Z**  
Variable Speed  
Variable Speed

**4HZZL3.43V42**

ENGINE MODE	RATED POWER			TORQUE			RATED SPEED			FUEL RATE			TORQUE			TORQUE SPEED			FUEL RATE AT MAX. TORQUE		
	[kW]	[hp]	[Nm]	[Nm]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	
3M41Z	43.6	58.4	139	140	3000	48.0	8.0	3.6	160	118	1800	48.5	4.9	2.2							
3M41Z	43.3	58.0	140	142	2950	48.0	7.9	3.6	160	118	1800	48.5	4.9	2.2							
3M41Z	43.0	57.6	142	143	2900	48.0	7.8	3.5	160	118	1800	48.5	4.9	2.2							
3M41Z	42.6	57.1	143	144	2850	48.0	7.6	3.5	160	118	1800	48.5	4.9	2.2							
3M41Z	42.3	56.7	144	146	2800	48.0	7.5	3.4	160	118	1800	48.5	4.9	2.2							
3M41Z	42.0	56.3	146	147	2750	48.5	7.4	3.4	158	117	1800	48.0	4.8	2.2							
3M41Z	41.6	55.7	147	148	2700	48.5	7.3	3.3	158	117	1800	48.0	4.8	2.2							
3M41Z	41.2	55.2	148	150	2650	48.5	7.2	3.3	158	117	1800	48.0	4.8	2.2							
3M41Z	40.8	54.7	150	151	2600	48.5	7.0	3.2	160	118	1800	48.5	4.9	2.2							
3M41Z	40.3	54.0	151	153	2550	48.5	6.9	3.1	160	118	1800	48.5	4.9	2.2							
3M41Z	40.0	53.6	153	154	2500	49.5	6.8	3.1	158	117	1500	48.5	4.1	1.8							
3M41Z	39.6	53.1	154	156	2450	49.5	6.6	3.0	158	117	1500	48.5	4.1	1.8							
3M41Z	39.1	52.4	156	156	2400	49.5	6.5	3.0	156	117	1500	48.5	4.1	1.8							
3M41Z	38.4	51.5	156		2350	49.5	6.3	2.9	160	118	1800	48.5	4.9	2.2							

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**3M41**  
Variable Speed  
Variable Speed

**4HZZL3.43V42**

ENGINE MODE	RATED POWER			TORQUE			RATED SPEED			FUEL RATE			TORQUE			TORQUE SPEED			FUEL RATE AT MAX. TORQUE		
	[kW]	[hp]	[Nm]	[Nm]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	
3M41	39.8	53.3	127	128	3000	44.0	7.4	3.3	136	100	1800	42.0	4.2	1.9							
3M41	39.6	53.1	128	129	2950	44.0	7.2	3.3	136	100	1800	42.0	4.2	1.9							
3M41	39.3	52.7	129	131	2900	44.0	7.1	3.2	139	103	1800	43.0	4.3	2.0							
3M41	39.1	52.4	131	132	2850	44.0	7.0	3.2	139	103	1800	43.0	4.3	2.0							
3M41	38.8	52.0	132	134	2800	44.0	6.9	3.1	142	105	1800	44.0	4.4	2.0							
3M41	38.6	51.7	134	135	2750	44.5	6.8	3.1	142	105	1800	44.0	4.4	2.0							
3M41	38.3	51.3	135	137	2700	44.5	6.7	3.0	138	102	1800	42.5	4.3	1.9							
3M41	38.1	51.1	137	139	2650	44.5	6.6	3.0	138	102	1800	42.5	4.3	1.9							
3M41	37.8	50.7	139	140	2600	45.0	6.5	3.0	144	106	1500	43.5	3.6	1.7							
3M41	37.4	50.1	140	142	2550	45.0	6.4	2.9	144	106	1500	43.5	3.6	1.7							
3M41	38.9	52.1	162	162	2300	51.0	6.5	3.0	162	119	2300	51.0	6.5	3.0							
3M41	38.2	51.2	162	162	2250	51.0	6.4	2.9	162	119	2250	51.0	6.4	2.9							
3M41	37.4	50.1	162		2200	51.0	6.3	2.8	162	119	2200	51.0	6.3	2.8							

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**3M41Z**  
VARIABLE SPEED

**4HZZL3.43V42**

ENGINE MODE	RATED POWER			TORQUE			RATED SPEED			FUEL RATE			TORQUE			TORQUE SPEED			FUEL RATE AT MAX. TORQUE		
	[kW]	[hp]	[Nm]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]		
3M41Z	39.1	52.4	124	3000	44.0	7.4	3.3	134	99	1800	42.0	4.2	1.9								
3M41Z	38.8	52.0	126	2950	44.0	7.2	3.3	134	99	1800	42.0	4.2	1.9								
3M41Z	38.5	51.6	127	2900	44.0	7.1	3.2	137	101	1800	43.0	4.3	2.0								
3M41Z	38.3	51.3	128	2850	44.0	7.0	3.2	137	101	1800	43.0	4.3	2.0								
3M41Z	38.0	50.9	130	2800	44.0	6.9	3.1	140	103	1800	44.0	4.4	2.0								
3M41Z	37.8	50.7	131	2750	44.5	6.8	3.1	140	103	1800	44.0	4.4	2.0								
3M41Z	37.5	50.3	133	2700	44.5	6.7	3.0	136	100	1800	42.5	4.3	1.9								
3M41Z	37.3	50.0	134	2650	44.5	6.6	3.0	136	100	1800	42.5	4.3	1.9								
3M41Z	37.0	49.6	136	2600	45.0	6.5	3.0	142	105	1500	43.5	3.6	1.7								
3M41Z	38.2	51.2	159	2300	51.0	6.5	3.0	159	117	2300	51.0	6.5	3.0								
3M41Z	37.3	50.0	158	2250	51.0	6.4	2.9	158	117	2250	51.0	6.4	2.9								

worst case engine:

The 3M41Z engine has more frictional power losses caused by the balancer shafts with the same fuel quantity than the 3M41 at the same rated speed (this engine is without balancer shafts). This is the worst case engine we tested for the EPA engine family because emissions are divided by less power (g/kWh) at the same fuel quantity specifications.

**3M41Z**  
VARIABLE SPEED

**4HZZL3.43V42**

ENGINE MODE	RATED POWER			TORQUE			RATED SPEED			FUEL RATE			TORQUE			TORQUE SPEED			FUEL RATE AT MAX. TORQUE		
	[kW]	[hp]	[Nm]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]		
3M41Z	41.2	55.2	131	3000	46.5	7.8	3.5	154	114	1800	46.5	4.7	2.1								
3M41Z	40.9	54.8	132	2950	46.5	7.6	3.5	154	114	1800	46.5	4.7	2.1								
3M41Z	40.7	54.5	134	2900	46.5	7.5	3.4	154	114	1800	46.5	4.7	2.1								
3M41Z	40.6	54.4	136	2850	46.5	7.4	3.4	154	114	1800	46.5	4.7	2.1								
3M41Z	40.2	53.9	137	2800	46.5	7.3	3.3	154	114	1800	46.5	4.7	2.1								
3M41Z	39.9	53.5	139	2750	47.0	7.2	3.3	152	112	1800	46.0	4.6	2.1								
3M41Z	39.6	53.1	140	2700	47.0	7.1	3.2	152	112	1800	46.0	4.6	2.1								
3M41Z	39.4	52.8	142	2650	47.0	6.9	3.2	152	112	1800	46.0	4.6	2.1								
3M41Z	39.1	52.4	144	2600	47.5	6.9	3.1	154	114	1800	46.5	4.7	2.1								
3M41Z	38.6	51.7	145	2550	47.5	6.8	3.1	154	114	1800	46.5	4.7	2.1								
3M41Z	38.2	51.2	146	2500	48.0	6.7	3.0	154	114	1800	46.5	4.7	2.1								
3M41Z	37.7	50.5	147	2450	48.0	6.6	3.0	154	114	1800	46.5	4.7	2.1								
3M41Z	37.3	50.0	148	2400	48.0	6.4	2.9	157	116	1800	47.5	4.8	2.2								

**3L411C** (Constant Torque, Variable Speed)  
**3HZXL3.43V42**  
**VARIABLE SPEED**

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ENGINE MODE	RATED POWER		TORQUE [Nm]	RATED SPEED [rpm]	[mm <sup>3</sup> /H]	FUEL RATE		TORQUE [Nm]	TORQUE [lbf]	TORQUE SPEED [rpm]	FUEL RATE AT MAX. TORQUE		
	[kW]	[hp]				[lbs/hr]	[kg/h]				[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]
3L41C	38.8	52.0	124	3000	45.0	7.5	3.4	140	103	1800	45.5	4.6	2.1
3L41C	38.6	51.7	125	2950	45.0	7.4	3.4	140	103	1800	45.5	4.6	2.1
3L41C	38.4	51.5	126	2900	45.0	7.3	3.3	140	103	1800	45.5	4.6	2.1
3L41C	38.1	51.1	128	2850	45.0	7.1	3.2	138	102	1800	45.0	4.5	2.0
3L41C	37.9	50.8	129	2800	45.0	7.0	3.2	138	102	1800	45.0	4.5	2.0
3L41C	37.7	50.5	131	2750	45.5	7.0	3.2	138	102	1800	45.0	4.5	2.0
3L41C	37.5	50.3	133	2700	45.5	6.8	3.1	138	102	1800	45.0	4.5	2.0
3L41C	37.3	50.0	134	2650	45.5	6.7	3.1	138	102	1800	45.0	4.5	2.0
3L41C	37.1	49.7	136	2600	46.0	6.7	3.0	138	102	1800	45.0	4.5	2.0

**3L411C** (Constant Torque, Variable Speed)  
**3HZXL3.43V42**  
**VARIABLE SPEED**

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ENGINE MODE	RATED POWER		TORQUE [Nm]	RATED SPEED [rpm]	[mm <sup>3</sup> /H]	FUEL RATE		TORQUE [Nm]	TORQUE [lbf]	TORQUE SPEED [rpm]	FUEL RATE AT MAX. TORQUE		
	[kW]	[hp]				[lbs/hr]	[kg/h]				[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]
3L41C	41.9	56.1	133	3000	47.0	7.9	3.6	146	108	1800	47.5	4.8	2.2
3L41C	41.6	55.7	135	2950	47.0	7.7	3.5	146	108	1800	47.5	4.8	2.2
3L41C	41.3	55.3	136	2900	47.0	7.6	3.4	146	108	1800	47.5	4.8	2.2
3L41C	41.0	54.9	137	2850	47.0	7.5	3.4	144	106	1800	47.0	4.7	2.2
3L41C	40.7	54.5	139	2800	47.0	7.3	3.3	144	106	1800	47.0	4.7	2.1
3L41C	40.4	54.1	140	2750	47.5	7.3	3.3	144	106	1800	46.5	4.7	2.1
3L41C	40.0	53.6	141	2700	47.5	7.1	3.2	144	106	1800	47.0	4.7	2.1
3L41C	39.6	53.1	143	2650	47.5	7.0	3.2	144	106	1800	47.0	4.7	2.1
3L41C	39.2	52.5	144	2600	47.5	6.9	3.1	143	105	1800	46.5	4.7	2.1
3L41C	38.8	52.0	145	2550	47.5	6.8	3.1	144	106	1800	47.0	4.7	2.1
3L41C	38.4	51.5	147	2500	48.0	6.7	3.0	147	108	1500	47.0	3.9	1.8
3L41C	37.8	50.7	147	2450	48.0	6.6	3.0	147	108	1500	47.0	3.9	1.8
3L41C	37.2	49.8	148	2400	48.0	6.4	2.9	146	109	2400	48.0	6.4	2.9

ENGINE MODE	RATED POWER			TORQUE			RATED SPEED			FUEL RATE			TORQUE			TORQUE SPEED			FUEL RATE AT MAX. TORQUE		
	[kW]	[hp]	[Nm]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]		
4M41	56.1	75.2	179	3000	46.5	7.8	3.5	208	153	1800	46.5	4.7	2.1								
4M41	55.7	74.6	180	2950	46.5	7.6	3.5	208	153	1800	46.5	4.7	2.1								
4M41	55.4	74.2	182	2900	46.5	7.5	3.4	208	153	1800	46.5	4.7	2.1								
4M41	55.1	73.8	185	2850	46.5	7.4	3.4	208	153	1800	46.5	4.7	2.1								
4M41	54.7	73.3	187	2800	46.5	7.3	3.3	208	153	1800	46.5	4.7	2.1								
4M41	54.4	72.9	189	2750	47.0	7.2	3.3	206	152	1800	46.0	4.6	2.1								
4M41	54.1	72.5	191	2700	47.0	7.1	3.2	206	152	1800	46.0	4.6	2.1								
4M41	53.7	72.0	194	2650	47.0	6.9	3.2	206	152	1800	46.0	4.6	2.1								
4M41	53.4	71.6	196	2600	47.5	6.9	3.1	208	153	1800	46.5	4.7	2.1								
4M41	52.8	70.8	198	2550	47.5	6.8	3.1	208	153	1800	46.5	4.7	2.1								
4M41	52.1	69.8	199	2500	48.0	6.7	3.0	208	153	1800	46.5	4.7	2.1								
4M41	51.4	68.9	200	2450	48.0	6.6	3.0	208	153	1800	46.5	4.7	2.1								
4M41	50.8	68.1	202	2400	48.0	6.4	2.9	211	156	1800	47.5	4.8	2.2								
4M41	49.7	66.6	202	2350	48.0	6.3	2.9	211	156	1800	47.5	4.8	2.2								

IF NSI

ENGINE MODE	RATED POWER			TORQUE			RATED SPEED			FUEL RATE			TORQUE			TORQUE SPEED			FUEL RATE AT MAX. TORQUE		
	[kW]	[hp]	[Nm]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]		
4M41	59.0	79.1	188	3000	48.0	8.0	3.6	215	159	1800	48.5	4.9	2.2								
4M41	58.6	78.5	190	2950	48.0	7.9	3.6	215	159	1800	48.5	4.9	2.2								
4M41	58.2	78.0	192	2900	48.0	7.8	3.5	215	159	1800	48.5	4.9	2.2								
4M41	57.8	77.5	194	2850	48.0	7.6	3.5	215	159	1800	48.5	4.9	2.2								
4M41	57.3	76.8	195	2800	48.0	7.5	3.4	215	159	1800	48.5	4.9	2.2								
4M41	56.9	76.2	198	2750	48.5	7.4	3.4	215	159	1800	48.5	4.9	2.2								
4M41	56.4	75.6	199	2700	48.5	7.3	3.3	215	159	1800	48.5	4.9	2.2								
4M41	55.8	74.8	201	2650	48.5	7.2	3.3	215	159	1800	48.5	4.9	2.2								
4M41	55.2	74.0	203	2600	48.5	7.0	3.2	215	159	1800	48.5	4.9	2.2								
4M41	54.7	73.3	205	2550	48.5	6.9	3.1	220	162	1500	48.5	4.1	1.8								
4M41	54.1	72.5	207	2500	49.5	6.9	3.1	220	162	1500	48.5	4.1	1.8								
4M41	53.8	71.8	209	2450	49.5	6.8	3.1	220	162	1500	48.5	4.1	1.8								
4M41	53.1	71.2	211	2400	49.5	6.6	3.0	220	162	1500	48.5	4.1	1.8								
4M41	52.3	70.1	213	2350	49.5	6.5	2.9	215	159	1800	48.5	4.9	2.2								

F

**4M41**  
**VARIABLE SPEED**  
**4HZXL3.43V42**

ENGINE MODE	RATED POWER		TORQUE		RATED SPEED		FUEL RATE		TORQUE		TORQUE SPEED		FUEL RATE AT MAX. TORQUE	
	[kW]	[hp]	[Nm]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	
4M41	53.1	71.2	169	3000	44.0	7.4	3.3	189	139	1800	42.0	4.2	1.9	
4M41	52.8	70.8	171	2950	44.0	7.2	3.3	189	139	1800	42.0	4.2	1.9	
4M41	52.5	70.4	173	2900	44.0	7.1	3.2	193	142	1800	43.0	4.3	2.0	
4M41	52.1	69.8	175	2850	44.0	7.0	3.2	193	142	1800	43.0	4.3	2.0	
4M41	51.8	69.4	177	2800	44.0	6.9	3.1	197	145	1800	44.0	4.4	2.0	
4M41	51.5	69.0	179	2750	44.5	6.8	3.1	197	145	1800	44.0	4.4	2.0	
4M41	51.2	68.6	181	2700	44.5	6.7	3.0	191	141	1800	42.5	4.3	1.9	
4M41	50.9	68.2	183	2650	44.5	6.6	3.0	191	141	1800	42.5	4.3	1.9	
4M41	50.6	67.8	186	2600	45.0	6.5	3.0	194	143	1500	43.5	3.6	1.7	
4M41	50.0	67.0	187	2550	45.0	6.4	2.9	194	143	1500	43.5	3.6	1.7	
4M41	49.3	66.1	188	2500	46.0	6.4	2.9	198	146	1500	44.5	3.7	1.7	
4M41	48.7	65.3	190	2450	46.0	6.3	2.9	198	146	1500	44.5	3.7	1.7	
4M41	48.1	64.5	191	2400	46.0	6.2	2.8	196	145	1500	44.0	3.7	1.7	
4M41	47.1	63.1	191	2350	46.0	6.0	2.7	196	145	1500	44.0	3.7	1.7	
4M41	52.0	69.7	216	2300	51.0	6.5	3.0	216	159	2300	51.0	6.5	3.0	
4M41	51.0	68.3	216	2250	51.0	6.4	2.9	216	159	2250	51.0	6.4	2.9	
4M41	50.0	67.0	218	2200	51.0	6.3	2.8	217	160	2200	51.0	6.3	2.8	
4M41	49.0	65.7	218	2150	51.0	6.1	2.8	218	161	2150	51.0	6.1	2.8	
4M41	48.0	64.3	218	2100	51.0	6.0	2.7	218	161	2100	51.0	6.0	2.7	
4M41	47.0	63.0	219	2050	51.0	5.8	2.6	219	162	2050	51.0	5.8	2.6	
4M41	46.0	61.6	220	2000	51.0	5.7	2.6	220	162	2000	51.0	5.7	2.6	
4M41	44.8	60.0	219	1950	49.0	5.3	2.4	219	162	1950	49.0	5.3	2.4	
4M41	43.7	58.6	220	1900	49.0	5.2	2.4	220	162	1900	49.0	5.2	2.4	
4M41	42.5	57.0	219	1850	49.0	5.1	2.3	219	162	1850	49.0	5.1	2.3	
4M41	41.3	55.3	219	1800	49.0	4.9	2.2	219	162	1800	49.0	4.9	2.2	



**4M41Z**  
VARIABLE SPEED

**4HZXL3.43V42**

ENGINE MODE	RATED POWER			TORQUE			RATED SPEED			FUEL RATE			TORQUE			TORQUE SPEED			FUEL RATE AT MAX. TORQUE		
	[kW]	[hp]	[Nm]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]		
4M41Z	57.5	77.1	183	3000	48.0	8.0	3.6	211	156	1800	48.5	4.9	2.2								
4M41Z	57.1	76.5	185	2950	48.0	7.9	3.6	211	156	1800	48.5	4.9	2.2								
4M41Z	56.7	76.0	187	2900	48.0	7.8	3.5	211	156	1800	48.5	4.9	2.2								
4M41Z	56.3	75.4	189	2850	48.0	7.6	3.5	211	156	1800	48.5	4.9	2.2								
4M41Z	55.8	74.8	190	2800	48.0	7.5	3.4	211	156	1800	48.5	4.9	2.2								
4M41Z	55.4	74.2	192	2750	48.5	7.4	3.4	211	156	1800	48.5	4.9	2.2								
4M41Z	54.9	73.6	194	2700	48.5	7.3	3.3	211	156	1800	48.5	4.9	2.2								
4M41Z	54.3	72.8	196	2650	48.5	7.2	3.3	211	156	1800	48.5	4.9	2.2								
4M41Z	53.7	72.0	197	2600	48.5	7.0	3.2	211	156	1800	48.5	4.9	2.2								
4M41Z	53.2	71.3	199	2550	48.5	6.9	3.1	213	157	1800	49.0	4.9	2.2								
4M41Z	53.1	71.2	203	2500	49.5	6.9	3.1	213	157	1800	48.5	4.1	1.8								
4M41Z	52.6	70.5	205	2450	49.5	6.8	3.1	213	157	1500	48.5	4.1	1.8								
4M41Z	52.1	69.8	207	2400	49.5	6.6	3.0	213	157	1500	48.5	4.1	1.8								
4M41Z	51.3	68.7	208	2350	49.5	6.5	2.9	211	156	1800	48.5	4.9	2.2								

**4M41Z**  
VARIABLE SPEED

**4HZXL3.43V42**

ENGINE MODE	RATED POWER			TORQUE			RATED SPEED			FUEL RATE			TORQUE			TORQUE SPEED			FUEL RATE AT MAX. TORQUE		
	[kW]	[hp]	[Nm]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]		
4M41	47.8	64.1	152	3000	40.0	6.7	3.0	180	133	1500	40.5	3.4	1.5								
4M41	47.5	63.7	154	2950	40.0	6.6	3.0	180	133	1500	40.5	3.4	1.5								
4M41	47.2	63.2	155	2900	40.0	6.5	2.9	179	132	1500	40.0	3.3	1.5								
4M41	46.9	62.8	157	2850	40.0	6.4	2.9	179	132	1500	40.0	3.3	1.5								
4M41	46.6	62.4	159	2800	40.0	6.2	2.8	179	132	1500	40.0	3.3	1.5								
4M41	46.4	62.2	161	2750	40.5	6.2	2.8	179	132	1500	40.0	3.3	1.5								
4M41	46.1	61.8	163	2700	40.5	6.1	2.8	179	132	1500	40.0	3.3	1.5								
4M41	45.8	61.4	165	2650	40.5	6.0	2.7	179	132	1500	40.0	3.3	1.5								
4M41	45.5	61.0	167	2600	40.5	5.9	2.7	179	132	1500	40.0	3.3	1.5								
4M41	45.0	60.3	169	2550	40.5	5.8	2.6	179	132	1500	40.0	3.3	1.5								
4M41	44.4	59.5	170	2500	41.0	5.7	2.6	179	132	1500	40.0	3.3	1.5								
4M41	43.8	58.7	171	2450	41.0	5.6	2.5	179	132	1500	40.0	3.3	1.5								
4M41	43.2	57.9	172	2400	41.0	5.5	2.5	179	132	1500	40.0	3.3	1.5								
4M41	42.4	56.8	172	2350	41.0	5.4	2.4	190	140	1500	42.5	3.6	1.6								
4M41	46.8	62.7	194	2300	47.0	6.0	2.7	205	151	1500	46.0	3.8	1.7								

**4M41Z**  
Variable Speed

**AHZXL3.43V42**

ENGINE MODE	RATED POWER		TORQUE		RATED SPEED		FUEL RATE		TORQUE		TORQUE SPEED		FUEL RATE AT MAX TORQUE	
	[kW]	[hp]	[Nm]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	[Nm]	[lbft]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	
4M41Z	54.6	73.2	174	3000	46.5	7.8	3.5	203	150	1800	46.5	4.7	2.1	
4M41Z	54.2	72.6	175	2950	46.5	7.6	3.5	203	150	1800	46.5	4.7	2.1	
4M41Z	53.9	72.2	177	2900	46.5	7.5	3.4	203	150	1800	46.5	4.7	2.1	
4M41Z	53.6	71.8	180	2850	46.5	7.4	3.4	203	150	1800	46.5	4.7	2.1	
4M41Z	53.2	71.3	181	2800	46.5	7.3	3.3	203	150	1800	46.5	4.7	2.1	
4M41Z	52.9	70.9	184	2750	47.0	7.2	3.3	201	148	1800	46.0	4.6	2.1	
4M41Z	52.6	70.5	186	2700	47.0	7.1	3.2	201	148	1800	46.0	4.6	2.1	
4M41Z	52.2	69.9	188	2650	47.0	6.9	3.2	201	148	1800	46.0	4.6	2.1	
4M41Z	51.9	69.5	191	2600	47.5	6.9	3.1	203	150	1800	46.5	4.7	2.1	
4M41Z	51.3	68.7	192	2550	47.5	6.8	3.1	203	150	1800	46.5	4.7	2.1	
4M41Z	51.1	68.5	195	2500	48.0	6.7	3.0	203	150	1800	46.5	4.7	2.1	
4M41Z	50.4	67.5	196	2450	48.0	6.6	3.0	203	150	1800	46.5	4.7	2.1	
4M41Z	49.8	66.7	198	2400	48.0	6.4	2.9	207	153	1800	47.5	4.8	2.2	
4M41Z	48.7	65.3	198	2350	48.0	6.3	2.9	207	153	1800	47.5	4.8	2.2	

IF NSI



**4HZZXL3.43V42**

ENGINE MODE	RATED POWER			TORQUE			RATED SPEED			FUEL RATE			TORQUE			TORQUE SPEED			FUEL RATE AT MAX. TORQUE		
	[kW]	[hp]	[Nm]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]		
4M41Z	51.6	69.1	164	3000	44.0	7.4	3.3	185	136	1800	42.0	4.2	1.9								
4M41Z	51.3	68.7	166	2950	44.0	7.2	3.3	185	136	1800	42.0	4.2	1.9								
4M41Z	51.0	68.3	168	2900	44.0	7.1	3.2	189	139	1800	43.0	4.3	2.0								
4M41Z	50.6	67.8	170	2850	44.0	7.0	3.2	189	139	1800	43.0	4.3	2.0								
4M41Z	50.3	67.4	172	2800	44.0	6.9	3.1	193	142	1800	44.0	4.4	2.0								
4M41Z	50.0	67.0	174	2750	44.5	6.8	3.1	193	142	1800	44.0	4.4	2.0								
4M41Z	49.7	66.6	176	2700	44.5	6.7	3.0	187	138	1800	42.5	4.3	1.9								
4M41Z	49.4	66.2	178	2650	44.5	6.6	3.0	187	138	1800	42.5	4.3	1.9								
4M41Z	49.1	65.8	180	2600	45.0	6.5	3.0	190	140	1500	43.5	3.6	1.7								
4M41Z	48.5	65.0	182	2550	45.0	6.4	2.9	190	140	1500	43.5	3.6	1.7								
4M41Z	48.3	64.7	184	2500	46.0	6.4	2.9	194	143	1500	44.5	3.7	1.7								
4M41Z	47.7	63.9	186	2450	46.0	6.3	2.9	194	143	1500	44.5	3.7	1.7								
4M41Z	47.1	63.1	187	2400	46.0	6.2	2.8	192	142	1500	44.0	3.7	1.7								
4M41Z	46.1	61.8	187	2350	46.0	6.0	2.7	192	142	1500	44.0	3.7	1.7								
4M41Z	51.0	68.3	212	2300	47.0	6.0	2.7	212	156	2300	51.0	6.5	3.0								
4M41Z	50.0	67.0	212	2250	51.0	6.4	2.9	212	156	2250	51.0	6.4	2.9								
4M41Z	49.0	65.7	213	2200	51.0	6.3	2.8	213	157	2200	51.0	6.3	2.8								
4M41Z	48.0	64.3	213	2150	51.0	6.1	2.8	213	157	2150	51.0	6.1	2.8								
4M41Z	47.0	63.0	214	2100	51.0	6.0	2.7	214	158	2100	51.0	6.0	2.7								
4M41Z	46.0	61.6	214	2050	51.0	5.8	2.6	214	158	2050	51.0	5.8	2.6								
4M41Z	45.0	60.3	215	2000	51.0	5.7	2.6	215	159	2000	51.0	5.7	2.6								
4M41Z	43.8	58.7	214	1950	49.0	5.3	2.4	215	159	1950	49.0	5.3	2.4								
4M41Z	42.7	57.2	215	1900	49.0	5.2	2.4	215	159	1900	49.0	5.2	2.4								
4M41Z	41.5	55.6	214	1850	49.0	5.1	2.3	214	158	1850	49.0	5.1	2.3								
4M41Z	40.3	54.0	214	1800	49.0	4.9	2.2	214	158	1800	49.0	4.9	2.2								

**4141C**  
**VARIABLE SPEED**

ENGINE MODE	RATED POWER			TORQUE			RATED SPEED			FUEL RATE			TORQUE			TORQUE SPEED			FUEL RATE AT MAX TORQUE		
	[kW]	[hp]	[Nm]	[Nm]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	
4L41C	55.6	74.5	177	179	3000	47.0	7.9	3.6	193	142	1800	47.5	4.8	2.2							
4L41C	55.2	74.0	179	180	2950	47.0	7.7	3.5	193	142	1800	47.5	4.8	2.2							
4L41C	54.8	73.4	180	182	2900	47.0	7.6	3.4	193	142	1800	47.5	4.8	2.2							
4L41C	54.4	72.9	182	184	2850	47.0	7.5	3.4	191	141	1800	47.0	4.7	2.1							
4L41C	54.0	72.4	184	186	2800	47.0	7.3	3.3	189	139	1800	46.5	4.7	2.1							
4L41C	53.7	72.0	186	188	2750	47.5	7.3	3.3	191	141	1800	47.0	4.7	2.1							
4L41C	53.1	71.2	188	190	2700	47.5	7.1	3.2	191	141	1800	47.0	4.7	2.1							
4L41C	52.6	70.5	190	191	2650	47.5	7.0	3.2	191	141	1800	47.0	4.7	2.1							
4L41C	52.1	69.8	191	193	2600	47.5	6.9	3.1	189	139	1800	46.5	4.7	2.1							
4L41C	51.5	69.0	193	195	2550	47.5	6.8	3.1	189	139	1800	46.5	4.7	2.1							
4L41C	51.0	68.3	195	195	2500	48.0	6.7	3.0	192	142	1500	47.0	3.9	1.8							
4L41C	50.0	67.0	195	195	2450	48.0	6.6	3.0	192	142	1500	47.0	3.9	1.8							
4L41C	49.0	65.7	195	193	2400	48.0	6.4	2.9	195	144	2400	48.0	6.4	2.9							
4L41C	47.5	63.7	193	193	2350	48.0	6.3	2.9	193	142	2350	48.0	6.3	2.9							

**4HZZXL3.43V42**

**4141Z**  
**VARIABLE SPEED**

ENGINE MODE	RATED POWER			TORQUE			RATED SPEED			FUEL RATE			TORQUE			TORQUE SPEED			FUEL RATE AT MAX TORQUE		
	[kW]	[hp]	[Nm]	[Nm]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /H]	[lbs/hr]	[kg/h]	
4M41Z	46.3	62.0	147	149	3000	40.0	6.7	3.0	177	131	1500	40.5	3.4	1.5							
4M41Z	46.0	61.6	149	150	2950	40.0	6.6	3.0	177	131	1500	40.5	3.4	1.5							
4M41Z	45.7	61.2	150	152	2900	40.0	6.5	2.9	175	129	1500	40.0	3.3	1.5							
4M41Z	45.4	60.8	152	154	2850	40.0	6.4	2.9	175	129	1500	40.0	3.3	1.5							
4M41Z	45.1	60.4	154	156	2800	40.0	6.2	2.8	175	129	1500	40.0	3.3	1.5							
4M41Z	44.9	60.2	156	158	2750	40.5	6.2	2.8	175	129	1500	40.0	3.3	1.5							
4M41Z	44.6	59.8	158	160	2700	40.5	6.1	2.8	175	129	1500	40.0	3.3	1.5							
4M41Z	44.3	59.4	160	162	2650	40.5	6.0	2.7	175	129	1500	40.0	3.3	1.5							
4M41Z	44.0	59.0	162	163	2600	40.5	5.9	2.7	175	129	1500	40.0	3.3	1.5							
4M41Z	43.5	58.3	163	166	2550	40.5	5.8	2.6	175	129	1500	40.0	3.3	1.5							
4M41Z	43.4	58.2	166	167	2500	41.0	5.7	2.6	175	129	1500	40.0	3.3	1.5							
4M41Z	42.8	57.4	167	168	2450	41.0	5.6	2.5	175	129	1500	40.0	3.3	1.5							
4M41Z	42.2	56.5	168	168	2400	41.0	5.5	2.5	176	129	1500	40.0	3.3	1.5							
4M41Z	41.4	55.5	168	168	2350	41.0	5.4	2.4	185	136	1500	42.5	3.6	1.6							
4M41Z	45.8	61.4	190	190	2300	47.0	6.0	2.7	201	148	1500	46.0	3.8	1.7							

**4HZZXL3.43V42**

**4L41C (6000RPM) (1500RPM) (1800RPM)**  
**VARIABLE SPEED**

**AHZZXL3.43V42**

ENGINE MODE	RATED POWER			TORQUE			RATED SPEED			FUEL RATE			TORQUE			TORQUE SPEED			FUEL RATE AT MAX. TORQUE		
	[kW]	[hp]	[Nm]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]		
4L41C	51.5	69.0	156	3150	45.0	7.9	3.6	184	136	1800	45.5	4.6	2.1								
4L41C	51.5	69.0	164	3000	45.0	7.5	3.4	184	136	1800	45.5	4.6	2.1								
4L41C	51.1	68.5	165	2950	45.0	7.4	3.4	184	136	1800	45.5	4.6	2.1								
4L41C	50.7	67.9	167	2900	45.0	7.3	3.3	184	136	1800	45.5	4.6	2.1								
4L41C	50.4	67.5	169	2850	45.0	7.1	3.2	182	134	1800	45.0	4.5	2.0								
4L41C	50.0	67.0	171	2800	45.0	7.0	3.2	182	134	1800	45.0	4.5	2.0								
4L41C	49.6	66.5	172	2750	45.5	7.0	3.2	182	134	1800	45.0	4.5	2.0								
4L41C	49.2	65.9	174	2700	45.5	6.8	3.1	182	134	1800	45.0	4.5	2.0								
4L41C	48.9	65.5	176	2650	45.5	6.7	3.1	182	134	1800	45.0	4.5	2.0								
4L41C	48.5	65.0	178	2600	46.0	6.7	3.0	182	134	1800	45.0	4.5	2.0								
4L41C	47.9	64.2	179	2550	46.0	6.5	3.0	184	136	1800	45.5	4.6	2.1								
4L41C	47.2	63.2	180	2500	46.5	6.5	2.9	192	142	1500	47.0	3.9	1.8								
4L41C	46.6	62.4	182	2450	46.5	6.4	2.9	187	138	1500	46.0	3.8	1.7								
4L41C	46.0	61.6	183	2400	46.5	6.2	2.8	187	138	1500	46.0	3.8	1.7								
4L41C	45.0	60.3	183	2350	46.5	6.1	2.8	187	138	1500	46.0	3.8	1.7								

**4L41C**  
**VARIABLE SPEED**

**4HZXL3.43V42**

ENGINE MODE	RATED POWER			TORQUE			RATED SPEED			FUEL RATE			TORQUE			TORQUE SPEED			FUEL RATE AT MAX. TORQUE		
	[kW]	[hp]	[Nm]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]	[Nm]	[lbf]	[rpm]	[mm <sup>3</sup> /h]	[lbs/hr]	[kg/h]		
4L41C	48.8	65.4	155	3000	42.5	7.1	3.2	175	129	1800	43.0	4.3	2.0								
4L41C	48.4	64.9	157	2950	42.5	7.0	3.2	175	129	1800	43.0	4.3	2.0								
4L41C	48.1	64.5	158	2900	42.5	6.9	3.1	175	129	1800	43.0	4.3	2.0								
4L41C	47.7	63.9	160	2850	42.5	6.8	3.1	171	126	1800	42.0	4.2	1.9								
4L41C	47.4	63.5	162	2800	42.5	6.6	3.0	171	126	1800	42.0	4.2	1.9								
4L41C	47.0	63.0	163	2750	43.0	6.6	3.0	175	129	1500	43.0	4.3	2.0								
4L41C	46.6	62.4	165	2700	43.0	6.5	2.9	175	129	1800	43.0	4.3	2.0								
4L41C	46.3	62.0	167	2650	43.0	6.4	2.9	175	129	1800	43.0	4.3	2.0								
4L41C	45.9	61.5	169	2600	43.5	6.3	2.9	175	129	1800	43.0	4.3	2.0								
4L41C	45.3	60.7	170	2550	43.5	6.2	2.8	174	128	1500	43.0	4.3	2.0								
4L41C	44.7	59.9	171	2500	43.5	6.1	2.8	174	128	1500	43.0	4.3	2.0								
4L41C	44.1	59.1	172	2450	43.5	5.9	2.7	174	128	1500	43.0	4.3	2.0								
4L41C	43.5	58.3	173	2400	43.5	5.8	2.6	174	128	1500	43.0	4.3	2.0								
4L41C	42.6	57.1	173	2350	43.5	5.7	2.6	178	131	1500	44.0	4.4	2.1								
4L41C	42.0	56.3	175	2300	49.0	6.3	2.9	195	144	2300	49.0	6.3	2.9								
4L41C	41.0	54.9	186	2250	49.0	6.1	2.8	195	144	2250	49.0	6.1	2.8								
4L41C	40.0	53.6	196	2200	49.0	6.0	2.7	195	144	2200	49.0	6.0	2.7								
4L41C	39.0	52.3	196	2150	49.0	5.9	2.7	195	144	2150	49.0	5.9	2.7								
4L41C	38.0	50.9	196	2100	49.0	5.7	2.6	195	144	2100	49.0	5.7	2.6								
4L41C	37.0	49.6	196	2050	49.0	5.6	2.5	196	145	2050	49.0	5.6	2.5								
4L41C	41.0	54.9	196	2000	49.0	5.5	2.5	196	145	2000	49.0	5.5	2.5								
4L41C	40.0	53.6	196	1950	48.0	5.2	2.4	196	145	1950	48.0	5.2	2.4								
4L41C	39.0	52.3	196	1900	48.0	5.1	2.3	196	145	1900	48.0	5.1	2.3								
4L41C	38.0	50.9	196	1850	48.0	5.0	2.2	196	145	1850	48.0	5.0	2.2								
4L41C	37.0	49.6	196	1800	48.0	4.8	2.2	196	145	1800	48.0	4.8	2.2								

**4L41C (CONVENTIONAL) DIESEL ENGINE WITH 91500110  
VARIABLE SPEED**

**4H2XL3.43V42**

ENGINE MODE	RATED POWER			TORQUE		RATED SPEED		FUEL RATE			TORQUE			TORQUE SPEED		FUEL RATE AT MAX. TORQUE		
	[kW]	[hp]	[Nm]	[Nm]	[rpm]	[mm <sup>3</sup> /h]	[l/h]	[kg/h]	[Nm]	[lbf·ft]	[rpm]	[mm <sup>3</sup> /h]	[l/h]	[kg/h]				
4L41C	43.9	58.8	140	141	3000	36.5	6.4	2.9	168	124	1800	41.0	4.1	1.9				
4L41C	43.6	58.4	141	143	2950	38.5	6.3	2.9	168	124	1800	41.0	4.1	1.9				
4L41C	43.3	58.0	143	143	2900	38.5	6.2	2.8	168	124	1800	41.0	4.1	1.9				
4L41C	42.9	57.5	144	144	2850	38.5	6.1	2.8	157	116	1800	38.0	3.8	1.7				
4L41C	42.6	57.1	145	145	2800	38.5	6.0	2.7	157	116	1800	38.0	3.8	1.7				
4L41C	42.3	56.7	147	147	2750	38.5	5.9	2.7	161	119	1800	39.0	3.9	1.8				
4L41C	42.0	56.3	149	149	2700	38.5	5.8	2.6	161	119	1800	39.0	3.9	1.8				
4L41C	41.6	55.7	150	150	2650	38.5	5.7	2.6	161	119	1800	39.0	3.9	1.8				
4L41C	41.3	55.3	152	152	2600	39.0	5.7	2.6	164	121	1800	40.0	4.0	1.8				
4L41C	40.8	54.7	153	153	2550	39.0	5.5	2.5	163	120	1500	40.0	3.3	1.5				
4L41C	40.2	53.9	154	154	2500	39.0	5.4	2.5	163	120	1500	40.0	3.3	1.5				
4L41C	39.7	53.2	155	155	2450	39.0	5.3	2.4	163	120	1500	40.0	3.3	1.5				
4L41C	39.2	52.5	156	156	2400	39.0	5.2	2.4	163	120	1500	40.0	3.3	1.5				
4L41C	38.3	51.3	156	156	2350	39.0	5.1	2.3	163	120	1500	40.0	3.3	1.5				
4L41C	42.3	56.7	176	176	2300	44.0	5.6	2.6	176	130	2300	44.0	5.6	2.6				

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