FT4 4LE2X Constant Speed / Genset Engine Technical Data

General Data			Cooling System			
Number of Cylinders	4 Engine Heat Rejection to Coolant*			2208.4 BTU/min	2.3 MJ/min	
	3.35x3.78 in	85x96 mm	Coolant Flow (@ 5 PSI Total Head Pressure)		20.6 gal/min	78 L/min
Displacement	133 in ³	2.18 L			20.8 gai/IIIII	95 °C
Compression Ratio	17.6:1	2.10 L	Max. Top Tank Temperature*		203 1	95 0
Valves per CylinderIntake/Exhaust	2		Water Pump Inlet Restriction*: Recommended		1.5 inHa	5.08 kPa
Firing Order	1-3-4-2		Max.		3.0 inHg	10.16 kPa
Combustion System	Direct injection		Engine Coolant Capacity		3.0 mmg 4 qt	4.1 L
Aspiration	Turbocharged & Intercooled		Coolant Drawdown Capacity wo/Significant Loss of Flow		4 գւ 10՝	
Engine Crankcase Vent System	PCV Closed Type		Recommended Minimum Limiting Ambient Temp*		115 °F	7∘ 46 °C
Max. Crankcase Pressure	0.43 inHg 1.47 kPa		Recommended Minimum Limiting Ambient Temp		115 F	46 C
Engine Rotating Direction Viewed from Fan Side			Charge Air Cooler			
After Treatment	Diesel Oxidation Catalyst				303.3 BTU/min	0.32 MJ/min
Alter Treatment	Arter Treatment Dieser Oxidation Galayst		CAC Heat Rejection* CAC Temp Rise over Ambient Temp*		36 °F	20 °C
Performance Data			· · · · · · · · · · · · · · · · ·	р	36 F 1 PSI	20 C 7 kPa
Rated Power	66 hp	49 kW	CAC Pressure Drop*		275 °F	7 KFa 135 °C
			Turbo Outlet Temp*		16.7 PSI	135 °C 115 kPa
Rated Speed Low Idle Speed	1800 rp		Turbo Outlet Pressure*		16.7 PSI	II5 KPa
High Idle Speed	1000 rp		Maximum Curface Temperatures			
nightidie Speed			Fan Belt*	Maximum Surface Temperatures		80 °C
Physical Bata (with and BOO manufacture and an					176 °F	
Physical Data (without DOC mounted on engine)			Engine Harness Junction Connector	rs"	212 °F	100 °C
(Includes Engine, Flywheel Hsg SAE #4, Flywheel, & Electrics)			ECM*		167 °F	75 °C
Length	30.35 in	771 mm	Turbocharger Wastegate Actuator*		302 °F	150 °C
Width	23.0 in	585 mm	Starter P/N 8-97112-865-2*	top, engine side	248 °F	120 °C
Height	30.43 in	773 mm	Alternator P/N 8-94423-756-0*	air outlet	176 °F	80 °C
Weight, dry	478 lb	217 kg				
Center of Gravity Location:			Exhaust System			
Forward of Rear Block Face	7.1 in	181 mm	Exhaust Temperature*		1013 °F	545 °C
Right of Crankshaft	-0.06 in	-1.6 mm	Exhaust Gas Flow*	High temp.gas	281.9 CFM	8.0 m ³ /min
Above Crankshaft	4.0 in	101 mm	Remotely Mounted DOC Exhaust T	emperature Drop (Turbo		
			Outlet to DOC Inlet) at 25% load		9 °F	5 °C
Physical Data (with DOC mounted on FW Hsg)			Max. Allowable Back Pressure for Total Exhaust System,			
(Includes Engine, Flywheel Hsg SAE #4, Flywheel, & Electrics)			including DOC & All Piping:			
Length	33.4 in	848 mm	DOC Mounted on FW Hsg*		3.0 inHg	10.0 kPa
Width	23.0 in	585 mm	 DOC Mounted Remotely* 		2.2 inHg	7.5 kPa
Height	30.4 in	773 mm				
Weight, dry	500 lb	227 kg	Fuel System			
Center of Gravity Location:			High Pressure Electronic Common Rail w/Remote-Mounted ECM		!	
Forward of Rear Block Face	6.4 in	163 mm	Max. Inlet Restriction/Pressure		-4.35 PSI to 2.9 PSI	-30kPa to 20kPa
Right of Crankshaft	-0.04 in	-0.9 mm	Max. Return Pressure		2.9 PSI	20 kPa
Above Crankshaft	4.5 in	114 mm	Max. Fuel Inlet Temperature at Fuel Pump*		140 °F	60 °C
			Fuel Consumption*		3.3 gal/hr	12.6 L/hr
Air System						
Engine Air Flow*	104.9 CFM	3.0 m ³ /min	Lubrication System			
Max. Allowable Air Temperature Rise Ambient to Engine Inlet	9 °F	5 °C	Max. Engine Oil Temp in Oil Gallery*		239 °F	115 °C
Max. Air Intake Restriction w/New Air Cleaner*	10.0 " Water	2.5 kPa	Max. Engine Oil Temp 10mm past I	Dipstick*	248 °F	120 °C
			Standard Oil Pan Inclination Angle		15°	









^{*}All values at rated speed and power unless otherwise noted.