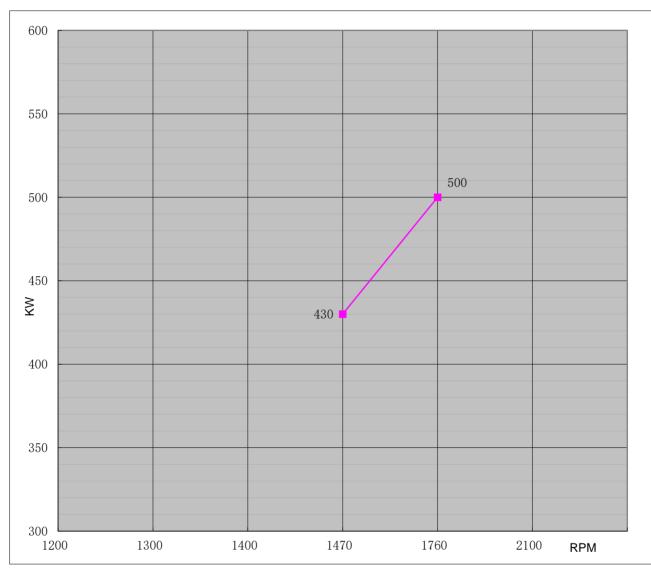


Performance Curve

Engine Model			CH6-159-E		Curve No.	C06159F		Date			2021/11/19
Displacement	18.90	L	Aspiration		Turbocharged+Coolant co	cooled Power		ower Standard		UL/FM	
Bore	159	mm	Cylinder Qty	nder Qty. 6, In Line		500	KW	@	1760	r/min	
Stroke	159	mm	Fuel System	า	Mechanical		671	НР	@	1760	r/min



Torque							
Speed	Torqu	ue					
RPM	N-m	lb-ft.					
1200							
1300							
1400							
1470	2794	2060					
1760	2713	2001					
2100							

Output Power						
Coood	Output	Davier				
Speed	Output	Power				
RPM	KW	HP				
1200						
1300						
1400						
1470	430	577				
1760	500	671				
2100						

Fuel Consumption						
Speed Consumption						
RPM	g/KW-HR	lb/BHP-HR				
1200						
1300						
1400						
1470	205	0.337				
1760	210	0.345				
2100						



Engine Data Sheet

Engine Model	CH6-159-E	Date	202	1/11/19		
Drawing No.	CH6-159-E	Document No.	DS06159F			
Drawing ivo.	671 HP @1760 RPM	Performance Curve No.	C06159F			
Rated Power	500 KW @ 1760 RPM	Version		Α		
	GI	ENERAL ENGINE DATA				
Туре			4 Cycle;In-line; wa	ter cooled; 6 Cylinder		
Aspiration			Turbocharged	+Coolant Cooled		
Bore and Stroke		mm×mm	159×159			
Cylinder Liner Type			✓ Wet	☐ Dry		
Displacement			L	18.9		
Compression Ratio			1	3.9:1		
Firing Order			1-5-	3-6-2-4		
Combustion System			Direct Injection			
Rotation Viewed from fl	ywheel		Counter Clockwise			
Valves Per Cylinder			Intake :2 Exhuast :2			
Intake			mm	0.36		
Valves lashes at cold	Exhaust	mm	0.69			
Charge Air Cooling Type	e	Raw Water				
Dry Weight Approx.		kg	2250			
Dimension Approx. (L*	W*H)		mm	2155*1195*1935		
Flywheel/ Flywheel Hous	se Dimension		14"/ SAE 0			
		EXHAUST SYSTEM				
Exhaust Gas Temp.			°C	513 @ 1760rpm		
Exhaust Gas Flow			m³/h	6703 @1760rpm		
Max. Allowable Back Pressure			kpa	7.3		
Minimum Exhaust Pipe Diameter			DN	200		
Minimum exhaust pipe dia allowable back pressure	meter is based on 6 meter of	f pipe, one elbow, and a silencer.	Pressure drop no great	er than one half the max.		
		AIR INTAKE SYSTEM				
Air Cleaner Type			Dry	у Туре		
Air Flow			m³/h	2580 @1760rpm		
Max. Allowable Air Inlet	Restriction		kpa	5		
	L	UBRICATION SYSTEM				
Oil Capacity			L	38		
Engine Normal Operatir	ng Sump Oil Temp.		°C	80-120		
Normal Operating Oil P	- :	bars	3.4~4.8			
Oil Pressure at Idle			bar	1.38		
•		COOLING SYSTEM				
Coolant Capacity - Engi	ne + Heat Exchanger		L	60		
The array and all December 1	Thermostat Range Start Open Full Open			82		
Inermostat Kange				93		
Coolant Pressure Cap		•	bar	0.9		
	Raw Water Working Pressure Range at Heat Exchanger			5		
Engine Normal Operatir	ng Coolant Temp.		°C	71-95		
Engine Coolant Flow at	Engine Coolant Flow at Full Load			45		

Minimum Raw Water Flow @ Engine Speed (rpm) Raw Water Temperatures to 16 °C Raw Water Temperatures to 38 °C Raw Water Pipe Size Raw Water Inl Raw Water Out HEATER SYSTEM Wattage Voltage AC ELECTRICAL SYSTEM System Voltage(Nominal) Starter motor Recommended Battery Capacity Cold Cranking Amperes @ -18°C (0°F) Charging Alternator Output FUEL SYSTEM Injection Pump Injection Advance Angle	1470 C (m³/h) 16 C (m³/h) 19	1760 16		
Raw Water Temperatures to 16 °C Raw Water Temperatures to 38 °C Raw Water Pipe Size Raw Water Inl Raw Water Inl Raw Water Out HEATER SYSTEM Wattage Voltage AC ELECTRICAL SYSTEM- System Voltage(Nominal) Starter motor Recommended Battery Capacity Cold Cranking Amperes @ -18 °C (0 °F) Charging Alternator Output FUEL SYSTEM	C (m ³ /h) 16 C (m ³ /h) 19			
Raw Water Temperatures to 38 °C Raw Water Pipe Size Raw Water Inl Raw Water Out HEATER SYSTEM Wattage Voltage AC ELECTRICAL SYSTEM System Voltage(Nominal) Starter motor Recommended Battery Capacity Cold Cranking Amperes @ -18°C (0°F) Charging Alternator Output FUEL SYSTEM	C (m ³ /h) 19	16		
Raw Water Pipe Size Raw Water Inl Raw Water Out HEATER SYSTEM Wattage Voltage AC ELECTRICAL SYSTEM System Voltage(Nominal) Starter motor Recommended Battery Capacity Cold Cranking Amperes @ -18°C (0°F) Charging Alternator Output FUEL SYSTEM				
Raw Water Pipe Size Raw Water Out HEATER SYSTEM Wattage Voltage AC ELECTRICAL SYSTEM- System Voltage(Nominal) Starter motor Recommended Battery Capacity Cold Cranking Amperes @ -18°C (0°F) Charging Alternator Output FUEL SYSTEM Injection Pump	- 1	19		
Raw Water Out HEATER SYSTEM Wattage Voltage AC ELECTRICAL SYSTEM- System Voltage(Nominal) Starter motor Recommended Battery Capacity Cold Cranking Amperes @ -18°C (0°F) Charging Alternator Output FUEL SYSTEM Injection Pump	-	G1 1/2"		
Wattage Voltage AC ELECTRICAL SYSTEM- System Voltage(Nominal) Starter motor Recommended Battery Capacity Cold Cranking Amperes @ -18°C (0°F) Charging Alternator Output FUEL SYSTEM Injection Pump		G2"		
Voltage AC ELECTRICAL SYSTEM- System Voltage(Nominal) Starter motor Recommended Battery Capacity Cold Cranking Amperes @ -18°C (0°F) Charging Alternator Output FUEL SYSTEM Injection Pump				
System Voltage(Nominal) Starter motor Recommended Battery Capacity Cold Cranking Amperes @ -18°C (0°F) Charging Alternator Output FUEL SYSTEM Injection Pump	W	4500		
System Voltage(Nominal) Starter motor Recommended Battery Capacity Cold Cranking Amperes @ -18°C (0°F) Charging Alternator Output FUEL SYSTEM Injection Pump	V	220		
Starter motor Recommended Battery Capacity Cold Cranking Amperes @ -18°C (0°F) Charging Alternator Output FUEL SYSTEM Injection Pump	-DC			
Recommended Battery Capacity Cold Cranking Amperes @ -18°C (0°F) Charging Alternator Output FUEL SYSTEM Injection Pump	V	24		
Cold Cranking Amperes @ -18°C (0°F) Charging Alternator Output FUEL SYSTEM Injection Pump	Kw	9.5		
Charging Alternator Output FUEL SYSTEM Injection Pump	AH	200		
FUEL SYSTEM Injection Pump	CCA	1000		
Injection Pump	Amps	70		
Injection Advance Angle				
injection / lavance / ligit	0	IQ		
Minimum Supply line Size	mm	19		
Minimum Return line Size	mm	16		
Fuel Management Control	Med	Mechanical		
Idle Speed	rpm	675		
Governed Speed Rate	%	<10		
Engine Performance D	ata			
All data is based on the engine operating with fuel system, lubricating are compressor, fan, optional equipment, and driven components.;Dat conditions of 300ft (91,4m) altitude, 29.61 in.(752mm) Hg dry barome 0# diesel fuel follow the standard GB 252-2011.	ta is based on operation at Sa	AE standard J1394		
Altitude above which output should be Limited	m (ft.)	91 (300)		
Correction Factor per 305m.(1,000ft.) above Altitude Limit	. /	3%		
Temperature above which output should be Limited	°C (°F)	25 (77)		
Correction Factor per 5.6°C (10°F) above Temperature Limit	- (· /	1%		

Remark:

1.All daa certified within 5%; 2.TBD - To Be Determined; 3.N/A - Not Applicable;