### **Cummins Inc.**

#### Marine Engine General Data Sheet

Engine Model: QSB6.7 Data Sheet: D31-MX-1

Date: 22NOV16

GENERAL ENGINE DATA	Metric [U.S. Customary	<b>/</b> ]
Type	4Cyc	cle - In-Line
Cylinders		6
Bore	mm [in	n] 107 [4.21]
Stroke	mm [in	124 [4.88]
Displacement	liter [in <sup>3</sup>	6.7 [408.25]
ENGINE MOUNTING & ACCESSORY DRIVES		
Max. Allowable Bending Moment at Rear Face of Block	N·m [ft·lb	o] 1356 [1000]
Max. Allowable Axial Thrust Load on Crankshaft		
Crankshaft Radial Load LimitMAB 0.01.0		,,
Max. Allowable Radial Load on Front of Crankshaft (250 & 305 only		ity)
At All Angles		= :
At 0°	<del>-</del>	
At 45°	•	
At 90°	<del>-</del>	
At 135°	-	
At 180°	•	
At 225°	-	
At 270°	-	
At 315°	<u>.</u>	
Installation/Operating Angles - Engine Installation Angles		,, 427 [30]
In-Line drive Installation: Static Installed Engine Pitch Angle		
Engine Front Up From Horizontal	Min	n. 0°
Engine Front Up From Horizontal		
Vee Drive Installation: Static Installed Engine Pitch Angle	IVIA	. 12
Engine Front Up From Horizontal	Min	ı. 2°
Engine Front Up From Horizontal		
Maximum Operating Angles (see MAB No. 0.16.00-03/27/2007 for o		
Continuous Pitch Angle	cirillions and options to	gain greater capability)
Engine Front Up From Horizontal	Deg	a15°
Engine Front Opy Tom Horizontal		
Continuous Roll Angle		j. 25
"Right" from vertical viewed from flywheel end of engine	Deg	a. 5°
"Left" from vertical viewed from flywheel end of engine		,
Intermittent Pitch Angle (intermittent operation less than 1 minut		j. J
Engine Front Up From Horizontal		ą30°
Engine Front Opy Tom Horizontal		•
Intermittent Roll Angle (intermittent operation less than 1 minute		j. 40
"Right" from vertical viewed from flywheel end of engine		a. 35°
"Left" from vertical viewed from flywheel end of engine		,
•	Deg	j. 33
FUEL SYSTEM	- D-1-1\	
Maximum Allowable Restriction to Fuel Pump (Customer Connectio	•	
Clean Filter		
Dirty Filter		
Maximum Allowable Return Line Pressure		
Maximum Static Pressure at Fuel Pump		
Maximum Height of Fuel In Tank Above Fuel Pump	m [fi	t] 4.11 [13.5]
EXHAUST SYSTEM		
Maximum Allowable Back Pressure	kPa [in Hg	g]
Maximum Bending Moment at Turbine Outlet Mounting Flange (Y D	Direction) N·m [ft·lb	o] 19 [14]
Maximum Incremental Direct Load at Turbine Outlet Mounting Flang	,	
Maximium Torque About Axis (X Direction)	N·m [ft·lb	
Maximum Torque About Axis (A Direction)	טויזון ווויוו	וון טו

# CUMMINS ENGINE COMPANY, INC COLUMBUS, INDIANA

### **Cummins Inc.**

Marine Engine General Data Sheet

	Marine Engine General Data Sneet			
Engine Model:	QSB6.7	Data	Sheet: D3 Date: 23	
AIR INDUCTION S	SYSTEM e Intake Restriction - Turbocharged			
		:- II O1	4 [4E]	
	erkPa [		4 [15]	
	kPa [		6 [25]	
	·		17 [30]	
Maximum Allo	wable Air Inlet Temperature at the Filter	°C [°F]	54 [130]	
LUBRICATION SY				
	t Normal Operating Temperature			
Idle Speed	d - Minimum in Main Oil Gallerykl	Pa [psi]	69 [10]	
Rated Spe	eed - Measured in Main Oil Gallery (Low) kl	Pa [psi] 2	07 [30]	
Max. Allowable	e Oil Temperature (Sump)	°C [°F] 12	21 [250]	
Oil Pan Capac	city (Shallow) OP			
Low	lit	ter [gal] 12	2.5 [3.3]	
High	lii	ter [gal] 14	.4 [3.8]	
Total System (	Capacity (Max. Sump + Filter(s))lit	ter [gal] 15	5.1 [4.0]	
COOLING SYSTE	M			
Coolant Capac	city			
•	· ·	ter [gal] 9	0.8 [2.6]	
•	•		6.5 [7.0]	
-			1.5 [5.0]	
			1.7 [50.0]	
	Head From Crankshaft Centerline With 15 psi Pressure Cap		.5 [5.0]	
			96 [205.0]	
	•		71 [160.0]	
	Coolant Expansion Space% of System		71 [100.0] 3%	
	· · · · · · · · · · · · · · · · · · ·		7.9 [20.0]	
	Water Inlet Restriction (Dirty Strainer)kPa	[III Hg] - I d	5.9 [-5.0]	
	STARTER SYSTEM			
Electrical		<u>12</u>	<u>2V</u>	<u>24V</u>
	mmended Battery Capacity			
	Cranking Amperes Rating (CCA)	110		550
	e Cranking Amperes Rating (MCA)	13	75	688
Rese	rve Capacity (Discharging 25 Amps @ 80°F)	Minutes 2	60	130
Min. Allow	able System Voltage (@ Battery While Running)	Volts 12	2.0	24.0
Min. Allow	able System Voltage (@ Battery While Cranking)	Volts 10	0.6	21.2
Max. Allow	vable System Voltage (@ Battery While Running)	Volts 15	5.5	31.0
Max. Allow	vable Voltage Drop of Starting Circuit (While Cranking)	Volts 1	.0	2.0
	ne Cranking Speed	rpm 1	50	150
-	ne (Running) Current Draw	•	30	15
	ent Temperature for Cold Start (No Aids)	°C [°F]	0 [32]	0 [32]

## **CUMMINS ENGINE COMPANY, INC COLUMBUS, INDIANA**

All Data is Subject to Change Without Notice - Consult the following Cummins intranet site for most recent data:

http://www.cummins.com