

**Systems Data**  
Reference Number: EM4495



September 18, 2020  
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<b>AIR INTAKE SYSTEM</b>		
<i>THE INSTALLED SYSTEM MUST COMPLY WITH THE SYSTEM LIMITS BELOW FOR ALL EMISSIONS CERTIFIED ENGINES TO ASSURE REGULATORY COMPLIANCE.</i>		
MAXIMUM ALLOWABLE INTAKE RESTRICTION WITH DIRTY ELEMENT	10	IN-H2O
<b>COOLING SYSTEM</b>		
ENGINE ONLY COOLANT CAPACITY	37.7	GAL
MAXIMUM ALLOWABLE JACKET WATER OUTLET TEMPERATURE	210	DEG F
MINIMUM ALLOWABLE AFTERCOOLER COOLANT FLOW	99.1	G/MIN
MAXIMUM ALLOWABLE AFTERCOOLER COOLANT FLOW	158.5	G/MIN
REGULATOR LOCATION FOR JW (HT) CIRCUIT	OUTLET	
REGULATOR LOCATION FOR SCAC CIRCUIT	INLET	
MAXIMUM UNINTERRUPTED FILL RATE	5.0	G/MIN
<b>ENGINE SPEC SYSTEM</b>		
CYLINDER ARRANGEMENT	VEE	
NUMBER OF CYLINDERS	12	
CYLINDER BORE DIAMETER	6.7	IN
PISTON STROKE	7.5	IN
TOTAL CYLINDER DISPLACEMENT	3158	CU IN
STANDARD CRANKSHAFT ROTATION FROM FLYWHEEL END	CCW	
STANDARD CYLINDER FIRING ORDER	1-12-9-4-5- 8-11-2-3- 10-7-6	
NUMBER 1 CYLINDER LOCATION	RIGHT FRONT	
STROKES/COMBUSTION CYCLE	4	
<b>EXHAUST SYSTEM</b>		
<i>THE INSTALLED SYSTEM MUST COMPLY WITH THE SYSTEM LIMITS BELOW FOR ALL EMISSIONS CERTIFIED ENGINES TO ASSURE REGULATORY COMPLIANCE.</i>		
MINIMUM ALLOWABLE SYSTEM BACK PRESSURE	0	IN-H2O
MAXIMUM ALLOWABLE SYSTEM BACK PRESSURE	20	IN-H2O
MANIFOLD TYPE	DRY	
<b>FUEL SYSTEM</b>		
MAXIMUM ALLOWABLE INLET FUEL TEMPERATURE	104	DEG F
MINIMUM ALLOWABLE INLET FUEL TEMPERATURE	32	DEG F
<b>LUBE SYSTEM</b>		
LUBE SYSTEM OIL COOLER TYPE	SHELL & TUBE	
CRANKCASE VENTILATION TYPE	OPEN	
MAXIMUM ACCEPTABLE CRANKCASE PRESSURE	12	IN-H2O
MINIMUM STARTING OIL TEMPERATURE	32	DEG F
<b>MOUNTING SYSTEM</b>		
LENGTH - ENGINE ONLY (REFERENCE VALUE)	122	IN
HEIGHT - ENGINE ONLY (REFERENCE VALUE)	84	IN
WIDTH - ENGINE ONLY (REFERENCE VALUE)	87	IN
<b>STARTING SYSTEM</b>		
MINIMUM CRANKING SPEED REQUIRED FOR START	150	RPM