

Print

Systems Data

Reference Number: EM4305



June 24, 2020
For Help Desk Phone
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AIR INTAKE SYSTEM

THE INSTALLED SYSTEM MUST COMPLY WITH THE SYSTEM LIMITS BELOW FOR ALL EMISSIONS CERTIFIED ENGINES TO ASSURE REGULATORY COMPLIANCE.

MAXIMUM ALLOWABLE INTAKE RESTRICTION WITH CLEAN ELEMENT	5	IN-H2O
MAXIMUM ALLOWABLE INTAKE RESTRICTION WITH DIRTY ELEMENT	15	IN-H2O
MAXIMUM TURBO INLET AIR TEMPERATURE	140	DEG F
MAXIMUM AIR FILTER INLET AIR TEMPERATURE	140	DEG F

COOLING SYSTEM

ENGINE ONLY COOLANT CAPACITY	92.4	GAL
MAXIMUM ALLOWABLE JACKET WATER OUTLET TEMPERATURE	210	DEG F
MAXIMUM UNINTERRUPTED FILL RATE	5.0	G/MIN
REGULATOR START TO OPEN TEMPERATURE - JW	192	DEG F
REGULATOR FULLY OPEN TEMP - JW	208	DEG F
CHARGE AIR TEMPERATURE CONTROL TYPE	SCAC	
MAXIMUM COOLANT WATER PRESSURE - ENGINE INLET	28.4	PSI
SCAC THERMOSTAT START TO OPEN TEMPERATURE	120	DEG F
SCAC THERMOSTAT FULL OPEN TEMPERATURE	138	DEG F
MINIMUM STARTING JACKET WATER TEMPERATURE	140	DEG F
AIR-TO-CORE TEMPERATURE RISE (RELATIVE TO INLET AIR TEMP)	6.7	DELTA DEG F
FAN AIRFLOW AT ADDITIONAL RESTRICTION A	67133.2447	CU FT/MIN
FAN AIRFLOW AT ADDITIONAL RESTRICTION B	64060.8658	CU FT/MIN
FAN AIRFLOW AT ADDITIONAL RESTRICTION C	0	CU FT/MIN
FAN ADDITIONAL RESTRICTION A	0	IN-H2O
FAN ADDITIONAL RESTRICTION B	0.50	IN-H2O
FAN ADDITIONAL RESTRICTION C	0.75	IN-H2O

ENGINE SPEC SYSTEM

CYLINDER ARRANGEMENT	VEE	
NUMBER OF CYLINDERS	20	
CYLINDER BORE DIAMETER	6.7	IN
PISTON STROKE	8.5	IN
TOTAL CYLINDER DISPLACEMENT	5956	CU IN
STANDARD CRANKSHAFT ROTATION FROM FLYWHEEL END	CCW	
STANDARD CYLINDER FIRING ORDER	1-2-11-12- 3-4-15-16- 7-8-19-20- 9-10-17-18- 5-6-13-14	
NUMBER 1 CYLINDER LOCATION	RIGHT FRONT	
STROKES/COMBUSTION CYCLE	4	
MAXIMUM ALLOWED CRANKCASE PRESSURE	0.1	PSI

EXHAUST SYSTEM

THE INSTALLED SYSTEM MUST COMPLY WITH THE SYSTEM LIMITS BELOW FOR ALL EMISSIONS CERTIFIED ENGINES TO ASSURE REGULATORY COMPLIANCE.

MAXIMUM ALLOWABLE SYSTEM BACK PRESSURE	20	IN-H2O
MANIFOLD TYPE	DRY	

FUEL SYSTEM

FUEL SYSTEM TYPE	CAT LOW PRESSURE	
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LUBE SYSTEM

LUBE SYSTEM OIL COOLER TYPE	SHELL & TUBE	
CRANKCASE VENTILATION TYPE	OCV	

MOUNTING SYSTEM

CENTER OF GRAVITY LOCATION - X DIMENSION - FROM REAR FACE OF BLOCK - (REFERENCE TM7077)	60.6	IN
CENTER OF GRAVITY LOCATION - Y DIMENSION - FROM CENTERLINE OF CRANKSHAFT - (REFERENCE TM7077)	13.7	IN
CENTER OF GRAVITY LOCATION - Z DIMENSION - FROM CENTERLINE OF CRANKSHAFT - (REFERENCE TM7077)	0.3	IN
DRY WEIGHT - ENGINE ONLY (REFERENCE VALUE)	23739	LB
LENGTH - ENGINE ONLY (REFERENCE VALUE)	166	IN
HEIGHT - ENGINE ONLY (REFERENCE VALUE)	96	IN
WIDTH - ENGINE ONLY (REFERENCE VALUE)	93	IN

STARTING SYSTEM

MINIMUM CRANKING SPEED REQUIRED FOR START	110	RPM
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