

**Systems Data**

Reference Number: DM8517


 November 10, 2021  
 For Help Desk Phone  
 Numbers [Click Here](#)
**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	15	IN-H2O
MAXIMUM ALLOWABLE INTAKE RESTRICTION WITH DIRTY ELEMENT	25	IN-H2O

**COOLING SYSTEM**

ENGINE ONLY COOLANT CAPACITY	5.5	GAL
MAXIMUM ALLOWABLE JACKET WATER OUTLET TEMPERATURE	219	DEG F
REGULATOR LOCATION FOR JW (HT) CIRCUIT	OUTLET	
MAXIMUM UNINTERRUPTED FILL RATE	5.0	G/MIN
MINIMUM COOLANT LOSS WITHOUT IMPACTING RADIATOR PERFORMANCE (PERCENT OF TOTAL)	12	PERCENT
COOLANT LOSS-MAXIMUM PERCENTAGE OF PUMP PRESSURE RISE LOSS	10	PERCENT
AIR VENT CAPABILITY AT 35% PUMP PRESSURE RISE LOSS	1.50	PT/MIN
AMBIENT COOLING CAPABILITY AT RATED SPEED	122	DEG F

**ENGINE SPEC SYSTEM**

CYLINDER ARRANGEMENT	INLINE	
NUMBER OF CYLINDERS	6	
CYLINDER BORE DIAMETER	5.7	IN
PISTON STROKE	7.2	IN
TOTAL CYLINDER DISPLACEMENT	1106	CU IN
STANDARD CRANKSHAFT ROTATION FROM FLYWHEEL END	CCW	
STANDARD CYLINDER FIRING ORDER	1-5-3-6-2-4	
NUMBER 1 CYLINDER LOCATION	FRONT	
STROKES/COMBUSTION CYCLE	4	

**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	40	IN-H2O
MANIFOLD TYPE	DRY	

**FUEL SYSTEM**

MAXIMUM FUEL FLOW FROM TRANSFER PUMP TO ENGINE	97.5	G/HR
MAXIMUM ALLOWABLE FUEL SUPPLY LINE RESTRICTION	8.9	IN-HG
MAXIMUM ALLOWABLE FUEL TEMPERATURE AT TRANSFER PUMP INLET	174	DEG F
MAXIMUM FUEL FLOW TO RETURN LINE FROM ENGINE	71.1	G/HR
MAXIMUM ALLOWABLE FUEL RETURN LINE RESTRICTION	8.0	IN-HG
NORMAL FUEL PRESSURE IN A CLEAN SYSTEM	90.1	PSI
FUEL SYSTEM TYPE	MEUI	
MAXIMUM TRANSFER PUMP PRIMING LIFT WITHOUT PRIMING PUMP	12.1	FT

**LUBE SYSTEM**

LUBE SYSTEM OIL COOLER TYPE	SHELL & TUBE	
CRANKCASE VENTILATION TYPE	TO ATM	

**MOUNTING SYSTEM**

CENTER OF GRAVITY LOCATION - X DIMENSION - FROM REAR FACE OF BLOCK - (REFERENCE TM7077)	24.0	IN
CENTER OF GRAVITY LOCATION - Y DIMENSION - FROM CENTERLINE OF CRANKSHAFT - (REFERENCE TM7077)	9.3	IN
CENTER OF GRAVITY LOCATION - Z DIMENSION - FROM CENTERLINE OF CRANKSHAFT - (REFERENCE TM7077)	0	IN
DRY WEIGHT - ENGINE ONLY (REFERENCE VALUE)	3600	LB
LENGTH - ENGINE ONLY (REFERENCE VALUE)	100	IN
WIDTH - ENGINE ONLY (REFERENCE VALUE)	60	IN

**STARTING SYSTEM**

MINIMUM CRANKING SPEED REQUIRED FOR START	115	RPM
LOWEST AMBIENT START TEMPERATURE WITHOUT AIDS	32	DEG F