

Systems Data

Reference Number: DM8518


 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