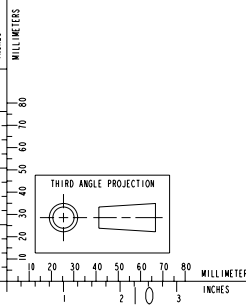


ITEM NUMBER
4953776
OPTION LIST
AC9179
BR9197
DA9179
EE9245
EH9434
EM9261
FF9475
FH9306
FW9959
HX9135
LF9093
LG9826
OC9082
OP9351
RG9371
SA9068
ST9285
SW9061
TB91378
VB9022
VC9156
XS9372

ZONE	REV	DESCRIPTION	DWN	APP'D
00	RELEASED			



ENGINE SERVICE TEST PORTS/INSTALLATION CONNECTIONS			
1	AUXILIARY HEATER RETURN:	3/4 NPT	
2	AUXILIARY HEATER SUPPLY:	3/4 NPT w/ ORIFICE	
3	BATTERY CONNECTION (STARTER) (+):	M12 X 1.75	
4	BATTERY CONNECTION (STARTER) (-):	M12 X 1.75	
5	BATTERY CONNECTION (ECM) (+):	1/4-20 UN	
6	BATTERY CONNECTION (ECM) (-):	1/4-20 UN	
7	COOLANT FILL:	Ø 30 [1.18]	
8	COOLANT RECOVERY/OVERFLOW CONNECTION:	Ø 8.39 [.33]	
9	ENGINE OIL DRAIN FRONT:	M18 X 1.5	
10	ENGINE OIL DRAIN REAR:	9/16-18 UN	
11	ENGINE OIL FILL:	Ø 38 [1.5]	
12	EXHAUST OUTLET CONNECTION (ELBOW):	Ø 152.4 [6.00] O.D.	
13	EXHAUST OUTLET CONNECTION (TURBO):	Ø 66 [2.60] I.D.	
14	EXHAUST TEMPERATURE/BACK PRESSURE:	1/8 NPT	
15	FRONT ENGINE SUPPORT:	2X Ø 28 [1.1] X 48 [1.9] SLOT	
16	FUEL RETURN TO TANK CONNECTION:	3/4-16 UN, 45° FLARE (SAE #8)	
17	FUEL INLET CONNECTION	7/8-14 UN, 45° FLARE (SAE #10)	
18	GEAR OIL COOLER DRAIN:	3/8 NPT	
19	GEAR OIL COOLER INLET AND OUTLET:	1/2 NPT	
20	OIL HEATER CONNECTION:	M22 X 1.5	
21	SEA WATER INLET:	Ø 63.5 [2.50]	
22	SEA WATER OUTLET:	Ø 50.8 [2.00]	
23	SHAFT LOG SEA WATER SUPPLY:	1/4 NPT	
24	ZINC ANODE:	4X 1/2 NPT, 2X 3/8 NPT	

PRODUCT GRAPHICS FILE  
NO ORIGINAL DRAWING EXISTS FOR THIS ITEM. THE ENGINEERING GRAPHICS DATA FOR THIS ITEM RESIDES IN THE PRODUCT GRAPHICS FILE AND IS CONTROLLED BY THE AGENCY DESIGNATED AS HAVING ITEM CONTROL.

DO NOT SCALE THIS DRAWING

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LAST SECTION LETTER USED:	NA
REF. DRAWING STANDARDS:	ANSI Y14.5M ISO 8101
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN: MILLIMETERS ( ) ARE IN: INCHES	
DWN:	D. SOMVIN
APPD:	UNCHECKED
APPD:	

**CUMMINS INC.**

ITEM NAME: QSC 8.3-HX W/ ZF286A SAE3

IDENTIFIER: INSTALLATION DIAGRAM

SIZE CODE (IDENT. NO.): J

ITEM NUMBER: 4953776

SCALE: 2:1

ITEM CONTROL: MCS

SHEET 1 OF 1