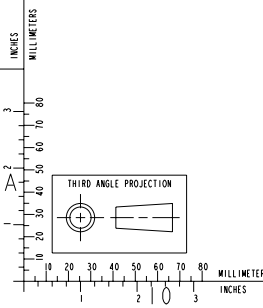


ITEM NUMBER	4953790
OPTIONS LIST	
AC9197	
BR9188	
EE9245	
EM9241	
FF90030	
FH9446	
FS9834	
FW9350	
HX9134	
LA9189	
LF9188	
LG9971	
OC9058	
OP9315	
PH9152	
RD9033	
RG9315	
SA9049	
ST9322	
SW9067	
TB91456	
VB9031	
WI9215	
XS9371	

REVISIONS			
ZONE	REV	DESCRIPTION	APP'D
01	REVISED		



ENGINE SERVICE TEST PORTS/INSTALLATION CONNECTIONS			
1	AUXILIARY HEATER RETURN:	5/8 BARBED	
2	AUXILIARY HEATER SUPPLY:	5/8 BARBED	
3	BATTERY CONNECTION (STARTER) (+):	M10 X 1.5	
4	BATTERY CONNECTION (STARTER) (-):	M10 X 1.5	
5	BATTERY CONNECTION (ECM) (+):	1/4-20	
6	BATTERY CONNECTION (ECM) (-):	1/4-20	
7	COOLANT FILL:	Ø30. [1.18]	
8	COOLANT RECOVERY/OVERFLOW CONN.:	Ø8.4 [0.33]	
9	ENGINE OIL DRAIN:	M18 X 1.5	
10	ENGINE OIL FILL:	Ø34.5 [1.3]	
11	EXHAUST OUTLET CONNECTION (ELBOW):	Ø152.4 [6.00] O.D.	
12	EXHAUST OUTLET CONNECTION (TURBO):	4X M8 X 1.25 ▽ 17.8	
13	EXHAUST TEMP. /BACK PRESSURE TEST PORT:	1/8-27 NPT	
14	FUEL INLET CONNECTION:	3/4-16 (37°-#8)	
15	FUEL INLET TEST PORT:	M10 X 1.0	
16	FUEL RETURN TO TANK CONNECTION:	3/8-18 NPT	
17	FUEL RETURN TEST PORT:	1/4-18 NPT	
18	GEAR OIL COOLER DRAIN:	2X 1/8-27 NPT, (BOTTOM)	
19	GEAR OIL COOLER INLET:	1/2-14 NPT	
20	GEAR OIL COOLER OUTLET:	1/2-14 NPT	
21	OIL HEATER CONNECTION:	M22 X 1.5	
22	SEA WATER INLET:	Ø50.8 [2.00] O.D.	
23	SEA WATER INLET TEST PORT:	1/4-18 NPT	
24	SEA WATER OUTLET:	Ø38.1 [1.50] O.D.	
25	SEA WATER OUTLET TEST PORT:	1/4-18 NPT	
26	SHAFT LOG SEA WATER SUPPLY:	2X 1/8-27 NPT, (TOP)	
27	ZINC ANODE:	3X 1/2-14 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.

LAST SECTION LETTER USED:	REF. DRAWING STANDARDS:	ANSI Y14.5M ISO 81101
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN: MILLIMETERS () ARE IN: INCHES	ITEM NAME:	QSB 5.9 480 W/ ZF 851V
DWN: S. SOMIN	IDENTIFIER:	J
CHD: UNCHECKED	SIZE CODE (IDENT. NO.):	ITEM NUMBER
APPD:	SCALE: N/A	4953790
APPD:	ITEM CONTROL:	MCS SHEET 1 OF 1

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