

PERFORMANCE TEST CAT MARINE GENSET

ENGINE TYPE: Cat 3412

ENGINE ARR. NO.: _____

ENGINE SERIAL NO.: 60M

FLYWHEEL POWER: 474 kw

GENSET TYPE: _____

FULL LOAD PERFORMANCE: 618 kw

GENSET SERIAL NO.: _____

GENSET ARR. NO.: _____

SITE: _____ **DATE:** 03-2010 **SERVICE ENGINEER:** _____

LOAD TEST MARINE ENGINE

PROGRAM:

FOR STABLE CONDITIONS - ENGINE RUNNING TIME: MIN. BEFORE TEST START,

25% LOAD 15 MIN. RUNNING REMARKS: 118

50% LOAD 15 MIN. RUNNING REMARKS: 237

75% LOAD 15 MIN. RUNNING REMARKS: 355

100% LOAD 30 MIN. RUNNING REMARKS: 474

110% LOAD _____ MIN. RUNNING REMARKS: _____

LOAD TEST MARINE ENGINE

HOUR					
LOAD %		25	50	75	100
AMBIENT TEMPERATURE	°C	19	20	21	21
SEA WATER TEMPERATURE	°C				
FLYWHEEL POWER	BKW				
RPM		1545	1544	1544	1542
LUBE OIL PRESSURE	KPA	54	52	51	50
LUBE OIL TEMPERATURE BEFORE COOLER	°C	82	88	91	95
LUBE OIL TEMPERATURE AFTER COOLER	°C	76	81	82	83
PRESSURE DIFFERENCE LURE OIL FILTER	KPA				
COOLING WATER TEMPERATURE INLET ENGINE	°C	14	14	21	28
COOLING WATER TEMP OUTLET ENGINE	°C	77	82	86	86
COOLING WATER TEMP J/W pump (mix)	..,c	73	73	74	74
COOLING WATER PRESS	KPA				
COOLING WATER TEMP INLET A/C	°C				
COOLING WATER TEMP OUTLET NC	°C				
COOLING WATER TEMP INLET A/C Regulator	°C				
COOLING WATER TEMP OUTLET A/C Regulator	°C				
MANIFOLD PRESS.	KPA	10	45	80	130
MANIFOLD TEMP.	0C	53	70	97	134
BOOST TEMP. BEFORE COOLER	°C	48	66	84	108
THROTTLE POSS,					
FUEL POSS.					
FUEL CONSUMPTION	L / HOUR				
RIGHT AIR FILTER DIFF.	KPA				
LEFT AIR FILTER DIFF.	KPA				
EXHAUST TEMP. CYLINDER 1	°C				
EXHAUST TEMP. CYLINDER 2	°C				
EXHAUST TEMP. CYLINDER 3	°C				
EXHAUST TEMP. CYLINDER 4	°C				
EXHAUST TEMP. CYLINDER 5	°C				
EXHAUST TEMP. CYLINDER 6	°C				
EXHAUST TEMP. CYLINDER 7	..0				
EXHAUST TEMP. CYLINDER 8	°C				
EXHAUST TEMP. CYLINDER 9	°C				
EXHAUST TEMP. CYLINDER 10	°C				
EXHAUST TEMP. CYLINDER 11	°C				
EXHAUST TEMP. CYLINDER 12	°C				
EXHAUST TEMP. CYLINDER 13	°C				
EXHAUST TEMP. CYLINDER 14	°C				
EXHAUST TEMP. CYLINDER 15	°C				
EXHAUST TEMP. CYLINDER 16	°C				

RIGHT EXHAUST MANIFOLD TEMP.	°C					
LEFT EXHAUST MANIFOLD TEMP.	°C					
FUEL PRESSURE	KPA	ok	ok	ok	ok	
PRESSURE DIFF. FUEL FILTER	KPA					
FUEL TEMP IN.	°C	26	26	26	25	
FUEL TEMP OUT.	°C	29	29	30	30	
EXHAUST TEMP. STACK	°C	210	295	350	410	
CRANKCASE PRESSURE	mm H2O	0	12	14	16	
EXHAUST BACK PRESSURE	mm H2O					
LOAD	KW	118	237	355	474	
VOLTAGE	V	400	400	400	400	
CURRENT	A.	190	370	510	700	
FREQUENCY	Hz	51,5	51,2	51,2	51,2	
READING MADE BY:	INT.					

COMMENTS: _____
