

## 2. ENGINE LOAD TEST SHEET (1)

ENGINE NO. : SB7L16-11884

TEST DATE : 2011-09-01

LOAD		%	25%	50%	75%	100%	100%	110%	REMARK
TIME OF RECORDING		min	30	30	30	30	30	30	
ENGINE SPEED		rpm	1200	1200	1200	1200	1200	1200	
GENERATOR SPEED		rpm	1200	1200	1200	1200	1200	1200	
ENGINE OUTPUT		kW	193	385	578	770	770	847	
GENERATOR EFFICIENCY(PF=1.0)		%	93.6	96.2	96.6	96.5	96.5	95.8	
GENERATOR OUTPUT		kW	180	370	558	743	743	811	
TURBOCHARGER SPEED (X 1000)		rpm	25.4	37.2	45.6	52.0	52.0	54.0	
GOVERNOR POSITION (FUEL)		Point	3.8	4.8	5.8	6.5	6.5	7.0	
AMBIENT TEMPERATURE		°C	30	33	34	35	37	37	
ATMOSPHERIC PRESSURE		mbar	1011	1011	1011	1011	1011	1011	
FUEL OIL CONSUMPTION	MEASURING	kg	8.20	13.50	19.90	25.85	26.00	28.95	
	TIME	min/Sec	10'00''	10'00''	10'00''	10'00''	10'00''	10'00''	
	CONSUMPTION	kg/h	49.2	81.0	119.4	155.1	156.0	173.7	
	ISO, CONSUMPTION	g/kW-h	252.1	207.5	203.9	198.5	199.5	201.9	
CONTROL AIR PRESS. ENG' INLET		bar	8.0	8.1	8.1	8.1	8.1	8.0	
H.T.F.W TEMP. ENGINE INLET		°C	73.8	73.6	73.5	71.9	72.0	71.6	
H.T.F.W TEMP. ENGINE OUTLET		°C	76.0	76.8	77.6	77.4	77.6	77.9	
H.T.F.W PRESS. ENGINE INLET		bar	2.80	2.60	2.30	2.20	2.10	2.00	
L.T.F.W TEMP. COOLER INLET		°C	36.1	34.4	33.9	33.4	33.6	33.4	
L.T.F.W PRESS. COOLER INLET		bar	3.10	3.00	2.70	2.70	2.60	2.50	
LUB OIL TEMP. ENGINE INLET		°C	69.3	69.4	69.8	70.1	70.1	69.6	
LUB OIL PRESS. FILTER INLET		bar	5.10	5.10	5.10	5.10	5.10	5.10	
LUB OIL PRESS. ENGINE INLET		bar	4.90	4.90	4.90	4.90	4.90	4.90	
LUB OIL PRESS. T/C INLET		bar	2.50	2.10	1.80	1.60	1.60	1.60	
FUEL OIL TEMP. ENGINE INLET		°C	41.1	42.4	44.1	45.3	46.5	46.9	
FUEL OIL PRESS. ENGINE INLET		bar	6.5	6.3	6.1	6.0	5.9	5.8	
CHARGE AIR TEMP. ENGINE INLET		°C	49.4	40.5	42.2	45.7	45.6	46.6	
CHARGE AIR PRESS. ENGINE INLET		bar	0.50	1.20	2.10	2.90	2.90	3.10	
FUEL INJECTION PUMP RACK POSITION		1	mm	12.0	16.0	20.0	24.0	24.0	25.5
		2	mm	12.0	16.0	20.0	24.0	24.0	25.5
		3	mm	12.0	16.0	20.0	24.0	24.0	25.5
		4	mm	12.5	16.5	20.5	24.5	24.5	26.0
		5	mm	13.0	17.0	21.0	25.0	25.0	26.5
		6	mm	13.0	17.0	21.0	25.0	25.0	26.5
		7	mm	12.0	16.0	20.0	24.0	24.0	25.5
		Mean	mm	12.4	16.4	20.4	24.4	24.4	25.9
EXHAUST GAS TEMPERATURE AFTER EACH CYLINDER		1	°C	286	287	319	360	361	387
		2	°C	277	286	311	352	353	377
		3	°C	256	274	311	353	351	372
		4	°C	279	284	313	353	353	378
		5	°C	270	282	312	355	353	375
		6	°C	267	273	295	341	340	362
		7	°C	263	280	311	350	347	367
		Mean	°C	271.1	280.9	310.3	352.0	351.1	374.0
EXHAUST GAS TEMPERATURE OF TURBOCHARGER		IN	°C	400	431	467	533	535	569
		OUT	°C	331	321	310	335	337	357
GENERATOR BEARING TEMP		OUT	°C	47	50	52	54	55	56