

# 1. Main specification

ENGINE NO. : SB7L21-12706

TEST DATE. : 2013-04-10

MAIN DATA FOR DIESEL ENGINE	ENGINE MODEL	7L21/31	
	NO. OF CYLINDER	7	ea
	CYCLE	4-STROKE	
	DIAMETER OF CYLINDER	210	mm
	STROKE OF PISTON	310	mm
	RATED OUTPUT	1540	kW
	RATED SPEED	900	rpm
	MAX.FIRING PRESSURE (IN COMBUSTION CHAMBER)	210	bar
	B.M.E.P	27.3	bar
	COMPRESSION RATIO	16.5 : 1	
	ROTATION DIRECTION	C.W	VIEW FROM FLYWHEEL
MAIN DATA FOR ALTERNATOR	MAKER	AVK	
	TYPE	DSG 99 L 1/8 W	
	SERIAL NO	81 31301 A102	
	CAPACITY	1667.0 kVA	
	EFFICIENCY, COS $\phi$ = 1.0, 25%/50%/75%/100%/110%	93.61%/95.78%/96.80%/97.09%/96.94%	
	VOLTAGE	690 V	
	CURRENT	1394.8 A	
	FREQUENCY	60 Hz	
POWER FACTOR	0.8		
MAIN DATA FOR TURBOCHARGER	MAKER	MAN DIESEL & TURBO	
	TYPE	TCR18	
	SPECIFICATION	42072	
	SERIAL NO	7030073	
MAIN DATA FOR GOVERNOR	MAKER / TYPE	EUROPA / RE2800	
	SERIAL NO	1231336	
ACCESSORIES	AIR COOLER	SERIAL NO. :	203679-1
	L.O COOLER	SERIAL NO. :	DEC 1823-1
	F.O PUMP	SERIAL NO. :	N/A
	L.O PUMP	SERIAL NO. :	-
	H.T F.W PUMP	SERIAL NO. :	-
	L.T F.W PUMP	SERIAL NO. :	-
FUEL OIL	NAME	MARINE DIESEL OIL	
	SPECIFIC GRAVITY	0.8661 (@15/4℃)	
	VISCOSITY	12.15 (CST @ 40.0 ℃)	
	L.C.V	10160 Kcal/Kg	
LUB. OIL FOR ENGINE & T/C	NAME	DAPHNE MARINE OIL	
	SPECIFIC GRAVITY	0.8906 (@ 15/4 ℃)	
	VISCOSITY	129.5 (CST @ 40.0 ℃)	
LUB. OIL FOR GOVERNOR	NAME	DAPHNE MARINE OIL	
	SPECIFIC GRAVITY	0.8906 (@ 15/4 ℃)	
	VISCOSITY	129.5 (CST @ 40.0 ℃)	

MA - 804C - 6W.2

STX ENGINE CO., LTD.