

BILL OF QUANTITY
PEKERJAAN PEMELIHARAAN MESIN INDUK KN.KALIMASADHA-P.115

NAMA KAPAL : KN. KALIMASADHA – P.115
 PANJANG KAPAL : 71.33 METER
 LEBAR KAPAL : 10 METER
 DRAFT KAPAL : 3 METER
 GROSS TONAGE : 824 TON
 TYPE MESIN : MTU 20 V 4000 M 73
 DAYA MESIN : 2 X 4290 PK

NO	NOMOR SPAREPART	NAMA BARANG	VOLUME	SATUAN
A	SPARE PARTS			
		CRANKCASE BREATHER		
1	5410180233	DIAPHRAGM	20	PCS
2	0000180680	GASKET	20	PCS
3	XP52699100134	O-RING	16	PCS
4	700429024004	O-RING	20	PCS
5	X00043095	COMPENSATING RING	20	PCS
6	700429085002	O-RING	4	PCS
7	700429015000	O-RING	8	PCS
8	X54701800009	GASKET	2	PCS
		ORIGINAL ITEM: X59601800008		
9	X59601800007	GASKET	2	PCS
		CYLINDER HEAD FOR 20V		
10	X52404200052	SEALING RING SIZE 0	40	PCS
		ORIGINAL ITEM: 5240160319		
11	X52404200042	GASKET FOR CYLINDER HEAD	40	PCS
		ORIGINAL ITEM: X52404200035		
12	700429010004	O-RING	80	PCS
13	007603014102	WASHER A COP	40	PCS
		CYLINDER HEAD COVER FOR 20V		
14	700429253000	O-RING	40	PCS
		INJECTOR FOR 20V		
15	700429021001	O-RING	40	PCS
16	0000160119	SEALING RING	40	PCS
17	700429038003	O-RING	80	PCS
18	XP59307500002	O-RING	40	PCS
		HP LINE FOR 20V		
19	700429024000	O-RING	40	PCS
		FUEL PUMP LOW PRESSURE		
20	X52408100007	LINK	2	PCS
		ORIGINAL ITEM: X52408100002		
21	700429083000	O-RING	2	PCS
		FUEL SUPPLY LINE		
22	700429030002	O-RING	4	PCS
		FUEL RETURN LINE		
23	007603012111	WASHER A COP	76	PCS

		INTERCOOLER WITH TEST CERT. 3.1		
24	700429140000	O-RING	2	PCS
25	5269970045	SEAL RING (SQUARE CUT) CAC OUTLET	4	PCS
26	XP52811400011	GASKET	2	PCS
27	XP52811400029	SEALING CORD	4	PCS
	ORIGINAL ITEM: XP52811400017			
28	XP52811400016	GASKET	4	PCS
29	XP52611400008	GASKET	2	PCS
30	XP52711400009	SEALING STRIP	5	SET
	AIR PIPING BEFORE INTERCOOLER			
31	700429105000	O-RING	8	PCS
32	700429028002	O-RING	4	PCS
33	735254105000	O-RING	8	PCS
34	700429165000	O-RING	8	PCS
35	X52299100013	O-RING	16	PCS
	AIR SYSTEM BEFORE TURBOCHARGER			
36	700429160001	O-RING	8	PCS
	AIR PIPING INTERCOOLER TO CYLH			
37	700429140000	O-RING	18	PCS
38	5240980680	GASKET	40	PCS
	EXHAUST SYSTEM F/CYL. TO T'CHARGER			
39	700429024000	O-RING	40	PCS
	AUTOMATIC OIL FILTER GL ACCEPTANCE			
40	XP59600600003	GASKET KIT	2	PCS
41	700429015005	O-RING	192	PCS
	FILTER 4 LITER CENTRIFUGAL SPINNER OIL			
42	23540471	SEALS KIT	4	PCS
43	XP52718300060	PAPER ELEMENT (25PCS/PKT)	4	PCS
	ORIGINAL ITEM: 23540465			
44	700429120000	O-RING	8	PCS
45	700429042002	O-RING	2	PCS
46	700429022003	O-RING	6	PCS
47	700429028002	O-RING	2	PCS
	COOLANT SYSTEM			
48	X00057233	COOLANT	8	PCS
49	50773	SILICONE RUBBER (LOCTITE 5970)	6	PCS
	OIL HEAT EXCHANGER			
50	700429083000	O-RING	8	PCS
	COOLANT DUCTING FOR AIR			
51	700429045001	O-RING	4	PCS
52	700429028002	O-RING	8	PCS
	COOLANT DUCTING TO INTERCOOLER			
53	700429080002	O-RING	4	PCS
54	700429095000	O-RING	20	PCS
55	700429085002	O-RING	8	PCS
56	700429085000	O-RING	4	PCS
	DIVERTER VALVE			
57	5272030080	GASKET	6	PCS
58	700429075001	O-RING	4	PCS

		CRANKCASE		
59	5240111380	GASKET	20	PCS
		CARRIER HOUSING F/ TURBO CHARGER		
60	0239978348	RING SEAL	8	PCS
61	700429200002	O-RING	8	PCS
		TURBOCHARGER		
62	700429020003	O-RING	8	PCS
63	700429017002	O-RING	8	PCS
64	700429028005	O-RING	8	PCS
65	007603022102	COPPER SEALING RING	32	PCS
66	X00009917	GASKET	16	PCS
		ELECTRIC		
67	0055351531	PRESSURE SENSOR (FOR AIR STARTING)	1	PCS
68	X00018659	PRESSURE SENSOR (CHARGE AIR /BOOST PRESS)	2	PCS
69	X00E50207217	PRESSURE SENSOR (P RAIL FUEL)	2	PCS
70	0035352231	PRESSURE SENSOR (P CRANKCASE AIR)	2	PCS
71	X00E50203667	LEVEL MONITOR (FUEL LEAKAGE)	1	PCS
72	X00E50208386	PRESSURE SENSOR (PRESSURE RAW WATER)	2	PCS
		ORIGINAL ITEM: 0045358931		
73	X00E50203662	LEVEL MONITOR (COOLANT LEVEL)	1	PCS
74	0035352531	PRESSURE SENSOR (LUBE OIL)	1	PCS
75	X52499100815	ACTUATOR VLV / SOLENOID FOR TURBO	5	PCS
		ORIGINAL ITEM: X00041391		
76	000000003558	BOLT HEX SOC ZNPH R5F	12	PCS
B	BIAYA SERVIS			
I	SERVICE TUNE-UP UNTUK 2 (DUA) UNIT MESIN MTU 20V4000M73		2	SET
	PEMBONGKARAN			
1	Disconnect power electrical ME			
2	Pembongkaran kabel power ME			
3	Drain coolant ME			
4	Pembongkaran sensor exhaust temperatur			
5	Pembongkaran instalasi yang berhubungan dengan sistem bahan bakar, sistem udara intercooler serta sistem pelumas mesin			
6	Pembongkaran cylinder head dan valve mechanism			
	SERVIS			
7	Laksanakan cleaning cylinder head			
8	Laksanakan test kedapn valve to seat valve cylinder head dengan vacuum			
9	Laksanakan crack test cylinder head dengan NDT			
10	Laksanakan cleaning injector dan resealing			
11	Laksanakan cleaning upper piston			
12	Laksanakan pengecekan pattern cylinder liner			
13	Laksanakan borescope lobe camshaft			
14	Laksanakan cleaning core intercooler			
15	Laksanakan cleaning centrifugal oil filter dan penggantian paper insert			
16	Laksanakan penggantian link fuel delivery pump			
17	Laksanakan cleaning dan pengecekan gearbox , filter element automatic oil filter			
18	Laksanakan pengecekan sensor-sensor dan electrical			

	PEMASANGAN		
19	Laksanakan pemasangan kembali semua sistem yang sudah dilepas saat pembongkaran dan penggantian sparepart pada huruf A		
20	Pemasangan sensor-sensor dan electrical		
21	Mix coolant additive (CS 100) dengan air demineral .		
22	Pengisian coolant		
	PENYETELAN		
23	Laksanakan penyetelan clearance valve		
	SEA TRIAL		
24	laksanakan monitoring dan pengambilan data		
II	PEMBONGKARAN DAN PEMBERSIHAN INTERCOOLER MPK I & II	2	SET
	- SOLVENTS FOR CLEANING INTERCOOLER		
III	MELEPAS DAN FLUSHING OIL COOLER MPK I & II	2	SET
	- SOLVENTS FOR FLUSHING OIL COOLER		

Tanjung Uban, 13 Oktober 2023

Debat Pembuat Komitmen



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