

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT

TANDER NO 1 /99

ITEM	CODE NO	DESCRIPTION	QUANTITY	
1-	07-70-02400	1. articulators Main Type : Verticale , single acting , 4 cycle , Water cooled , solid injection , pri Combustion ,trunk piston type with turbo- blower and air cooler 2-Model: 6 L16X NIIGATA JAPAN Max. rating: 500 PS / 1450 RPM Max. continuous rating : 450 PS / 1400 RPM.	6 PECS	
2-	07-70-02401	1- Main particulars CLUYCH DEVICE- Model :NIICATA CONVERTER CL- 4A Type : Oil operating wet multiple disc clutch Pressure of clutch 12- 14 kg/sq.cm. Operating oil Max. 500 Ps Transmitting power Rated revolution 1450 Rpm Speed .	6 PECS	
3-	07-70-02402	<u>DISEL ENGINE GENERATOR</u> 1- TYPE Four cycle ,vertical ,solid -Injection pre combustion Chamber. 2- MODEL 4 GF -2s MITSUBISHI - JAPAN 3- NO .OF CYLINDER 4 4- bore × stroke 160 ×200 [mm]	9 PECS	
4-	07-70-02403	<u>MAIN AIR COMPRESSOR</u> TANABE AIR COMPRESSOR CMVA S30 C-P SERIAL NO . 13210 ~ 13 DRAWING NO . RNE6-0451F MODEL :- SHC-30C TYPE :-VERTICAL , 2STAGES WATER COOLED PRESSURE:- 25 KG/sq.CM CAPACITY :- 8cu .CM/HR POWER REQD:- 3.5 PS	6 PECS	
5-	07-70-02404	PROPELLER -RUDDER DEVICE (Z -PELLER) NIIGATA MODEL ZP- S5	6 PECS	

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT

TENDER NO. 2/99
SPARE PARTS FOR DEUTZ ENGINE TYPE B/ F 12L 413
ACCORDING TO THE FOLLOWING SPECIFICATION :

ITEM	CODE NO.	DESIGNATION	PART NO.	QTY
1	07-70-00100	INJECTION PUMP	9941307	40
2	07-70-00101	OIL COLLER	2416951	16
3	07-70-00102	GASKET	2413332	80
4	07-70-00103	STARTER	1163556	40
5	07-70-00104	ALTERNATOR	1163170	80
6	07-70-00105	CONTACT SENSOR	3367212	40
7	07-70-00106	IGNITION SWITCH	2985107	80
8	07-70-00107	IGNITIONS WITCH	1310158	80
9	07-70-00108	CHARGING REGULATOR	1171400	200
10	07-70-00109	STARTING RELAY		40
11	07-70-00110	THRUST BEARING 10 (0.25)	2147241	80
12	07-70-00111	THRUST BEARING 20 (0.25)	2147242	80
13	07-70-00112	MAIN BEARING 10 (0.25)	2147220	288
14	07-70-00113	BIG-END BEARING STD	2414189	480
15	07-70-00114	BIG – END BEARING 10(0.25)	2414190	480
16	07-70-00115	FILTER GLASS	1260840	16
17	07-70-00116	GLASS	1290640	8
18	07-70-00117	RUBBER HOSE CONNECTION	2416592	16
19	07-70-00118	LIFT HAND PUMP	3361757	100
20	07-70-00119	CONNECTIONG ROD	2415313	20
21	07-70-00120	COVER	1211729	8
22	07-70-00121	MAIN BEARING	2147219	288
23	07-70-00122	MAIN BEARING 0.75	2147222	288
24	07-70-00123	MAIN BEARING 1.00	2147223	164
25	07-70-00124	BIG END BEARING 0.75	2144192	280
26	07-70-00125	THRUST BEARING 0.75	2147243	40
27	07-70-00126	THRUST BEARING 1.00	2147244	24
28	07-70-00127	PISTON RING SET	2147204	576
29	07-70-00128	SEALING SET	2911516	579
30	07-70-00129	SHAFT SEAL	2913331	160
31	07-70-00130	SHAFT SEAT	2913332	160
32	07-70-00131	NOZZEL	656 BOSH	960

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT
SCHOTTEL

SPARE PARTS FOR PROPELLER TYPE :SRP 100/ 103 (SCHOTTEL 0 FOR RIVER PUSHERS)

ITEM	CODE NO.	DESCRIPTION	PART NO.	QTY
1	07-70-00200	SET OF BEVEL GEAR	101 249	20
2	07-70-00201	PROPELLER SHAFT	100 6233	5
3	07-70-00202	AXISL BALLBEARING	100 5314	20
4	07-70-00203	PROPELLER	100 6252	15
5	07-70-00204	BEARING	10 4164	15
6	07-70-00205	STEERING TUBE	102 3941	10
7	07-70-00206	NEEDLE BEARING	100 8109	20
8	07-70-00207	SPLIT SLEEVE	102 3895	50
9	07-70-00208	SPLIT SLEEVE	102 3896	50
10	07-70-00209	UPPER PART COMPLETE	102 4013	5
11	07-70-00210	LOWER GEARBOX COMP.	102 0134	5
12	07-70-00211	STEEING GEAR BOX	102 8346	2
13	07-70-00212	SPACER	100 3799	3
14	07-70-00213	BUSHING	100 4663	30
15	07-70-00214	SPLINED COUPLING	100 4618	20
16	07-70-00215	BEARING HOUSING	100 6546	10
17	07-70-00216	CASSING ASSY	102 3938	5
18	07-70-00217	CRDWN WHEL AXLE	100 4760	5
19	07-70-00218	OIL SINGER	100 3651	5
20	07-70-00219	TUBULAR RIVET	101 8257	10
21	07-70-00220	PISTION	101 4262	20
22	07-70-00221	CLUTCH COMPLETE	104 4191	5
23	07-70-00222	COUPLING SHAFT ASSY	101 4270	3
24	07-70-00223	OUTER PLATE	100 0367	100
25	07-70-00224	INTERNAL PLATE	100 0368	90
26	07-70-00225	OIL LEVEL GAUGE	101 5779	15
27	07-70-00226	NEEDLE BEARING	101 5777	50
28	07-70-00227	SOLENOID VALVE	105 2859 OR 100 8989	20
29	07-70-00228	COUPLINGSBLOCK COMPL	100 7918	10
30	07-70-00229	HYD. PUMP	100 6916	50
31	07-70-00230	PUMP ASS. COMP.	100 9979 OR 100 9004	5
32	07-70-00231	UNIVERSAL SHAFT	102 4315	10
33	07-70-00232	UNIVERSAL SHAFT	101 0291	10
34	07-70-00233	CO-PILOT	101 2662	10
35	07-70-00234	CO-PILOT	101 2663	10
36	07-70-00235	SPEED CONTROLL	102 3859	30
37	07-70-00236	GEARED ENGINE	105 7923 OR 102 9253	20
38	07-70-00237	RESISTOR BODY	102 0158	20
39	07-70-00238	SLIDNG CONTACT BRUSH WITH SPRING	102 0155	100
40	07-70-00239	CONTACT STROP	101 6789	20
41	07-70-00240	CAM DISX AS	101 6788	10
42	07-70-00241	TRANSMITTER COMP	101 0072	20
43	07-70-00242	CONSOLE	101 7595	10
44	07-70-00243	SCHOTTEL PROPELLER –RODDUR COMPLETE		15

SERIAL NO : 6286-6419

MINISTRY OF TRANSPORT & COMMUNICATION

IRAQI STATE CO. FOR WATER TRANSPORT

SECTION 2

SUPPLYING OF 30 NOS OF DIESEL GENERATOR WITH FOLLOWING SPECIFICATION

- | | |
|-------------|--|
| 1) POWER | 25 KVA |
| 2) VOLTAGE | 380 / 220 V 50 HZ |
| 3) COOLEING | COMPLETE AIR COOLED IN AMIBTENT
TEMPS SO CENT . |
| 4) FUEL | GAS OIL |

SPARE PARTS FOR MOBILE HYDRULIC CRANE (TADANO)

ITEM	CODE NO	DESCRI PTION	PARTNO	QUNT
1	07-70-00320	7000 POWER TAKE OFF (COMPLETE)	PARTS CATALOG ZR 256 LOAD CAPACITY 25 TONS	15
2	07-70-00321	EAR PUMP ASSEMBLY	163-151-03000 PARTS CATALOG TL-251 S.NO.306389 INF.NO:EL 1651661	15
3	07-70-00322	GEAR PUMP ASSEMBLY	186-151-05000 PARTS CATALOG TG-452 S.NO. 400683 INF.NO:EG0690700	10
4	07-70-00323	GEAR PUMP ASSEMBLY	166-151-07000 PARTS CATALOG TG-452 S.NO. 400683 INF .NO:EG 0690700	10

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT

TENDER NO.3/99
SPARE PARTS FOR MAIN ENGINE
MODEL: - NIIGATA 6L16X

TYPE: - VERTICAL, SINGLE ACTING, 4 CYCLE, WATER COOLED, SOLID INJECTION, PRE-COMBUSTION, TRUNK PISTON TYPE WITH TURBO – BLOWER AND AIR COOLER.

MAX RATING: - 500 Ps / 1450 rpm

NO. Of cylinder: - 6

CYL. Bore × stroke: - 160 x 200

SPARE PARTS FOR M/ E

ITEM	CODE NO.	DESCRIPTION	ITEM NO	PART NO	QTY
	07-70-00400	CRANK SHAFT	0900-1	410090002	4
	07-70-00401	MAIN METAL1	1300-9	510 13190A	6
	07-70-00402	MAIN METAL2	1300-11	510 1320A	24
	07-70-00403	MAIN METAL3	1300-10	510 13300A	6
	07-70-00404	MAIN METAL4	1300-8	510 13320A	6
	07-70-00405	CYLINDER LINEAR ASSY	1300-504	618 17110B	36
	07-70-00406	O- RING	1300-65	610 171200	72
	07-70-00407	GASKET	1300-69	610 134001	36
	07-70-00408	GASKET	1300-66	610 324100	36
	07-70-00409	JOINT PIPE	1300-31	616 325400	72
	07-70-00410	O- RING	1300-32	A60 100 360	72
	07-70-00411	PIPE,CONNECTING4	1300-33	616 325300	36
	07-70-00412	O-RING	1300-34	677 502020	72
	07-70-00413	PIPE,CONNECTING2	1300-123	616 325100	12
	07-70-00414	O- RING	1300-36	677 501010	144
	07-70-00415	PIPE,CONNECTING 1	1300-122	616 325000	36
	07-70-00416	PISTON	1900-17	416 190200	36
	07-70-00417	COMPRESSION RING	1900- 4	610 191000	108
	07-70-00418	OIL SCRAPE RING2	1900- 5	610 193201	36
	07-70-00419	OIL SCRAPE RING1	1900- 6	510 19310B	36
	07-70-00420	PISTON PIN	1900- 2	610 190801	12
	07-70-00421	PISTON PIN MEAL	1900- 12	510 210310	36
	07-70-00422	CONNECTING ROD	1900- 7	410 210010	12
	07-70-00423	BIG –END BEARING	1900- 9	510 21040A	36
	07-70-00424	CONNECTING ROD BELT	1900- 10	610 210710	144
	07-70-00425	NUT	1900- 11	610 210810	144
	07-70-00426	LOCK NUT	1900- 14	610 210900	144
	07-70-00427	RE HEATING DEVICE ASSY	3900-501	410 29081A	6
	07-70-00428	PRE HEATING PLUG	2900- 13	582 20090A	36
	07-70-00429	CYLINDER HEAD ASSY(A)	3250-501	410 29081A	36
	07-70-00430	FUEL INJECTION VALVE ASSY	3260- 501	416 32570A	36

ITEM	CODE NO.	DESCRIPTION	ITEM NO	PART NO	QUTIY
	07-70-00431	NOZZLE	3260- 15	603 322501	36
	07-70-00432	STARTING AIR VALVE ASSY	3270- 501		36
	07-70-00433	GASRET	3550- 2	616 351101	36
	07-70-00434	35- EXPANSION JOINT	3650-10	591 200900	12
	07-70-00435	GASKET	3650- 7	616 362000	36
	07-70-00436	COOLING WATER PUMP ASSY	4200- 501	410 4203	6
	07-70-00437	LUBRICATING OIL PUMP ASSY	4300-501	410 43001K	6
	07-70-00438	FUEL INJECTION PUMP ASSY	4760-501		
	07-70-00439	TURBO BLOWER COMPLETE TYPE C- 045	-----	-----	6

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT

SPARE PARTS FOR MAIN GENERATOR DIESEL ENGINE

MODEL: - MITSUBISHI 4 GF-2S

TYPE: - 4- CYCLE PRECOMBUSTION WATER COOLED

OUTPUT: - 140HP

REVLUTION: -1500RPM

NO. OF CYL: -4

CYL.BORE: - 160mm

STROKE: 200mm

DIRECT.OF REV: -CLOCK WISE VIEWED FROM FLYWHEEL SIDE.

2nd) SPARE PARTS FOR D /G

ITEM	CODE NO.	DESCRIPTION	PART NO.	QTY
1-	07-70-00500	CYLINDER HEAD ASSY	EN 01817 A	36
2-	07-70-00501	CAM SHAFT ASSY	EN 03512	9
3-	07-70-00502	CRANK SHAFT ASSY	EN02579 A	9
4-	07-70-00503	PISTON	EZ 21016	36
5-	07-70-00504	COMP RING	EZ 20196	36
6-	07-70-00505	COMP RING	TA 62022	72
7-	07-70-00506	OIL RING ASSY	TA 02004	36
8-	07-70-00507	PISTION PIN	EN 52008	12
9-	07-70-00508	CYLINDER LINEAR	EZ 22016	36
10-	07-70-00509	CONN. ROD ASSY	EN 0257 A	18
11-	07-70-00510	BOLT	EN 42533	144
12-	07-70-00511	NUT,SLOT	EN 32502	144
13-	07-70-00512	METAL (CONN.ROD)	EZ 10076	36
14-	07-70-00513	PUSH ROD	EN 03217	36
15-	07-70-00514	TAPPET ASSY	EZ 95059	36
16-	07-70-00515	ROCKER ARM ASSY	EN 01508	36
17-	07-70-00516	ADJUST SCREW	EN 51056	72
18-	07-70-00517	NUT,J	N612 A12	72
10-	07-70-00518	W.W GOVER NO		
20-	07-70-00519	NOZZLE ASSY	EZ 01036	36
21-	07-70-00520	NOZZL HOLDER ASSY	EN 04554	36
22-	07-70-00521	FUEL INJECTION PUMP(PLUNGER ASSY)	EZ 40038XX005	36
23-	07-70-00522	DELIVERY VALVE	EZ 40038XX012	36
24-	07-70-00523	FUEL INJECTION PUMP	EZ 40038LR	36
25-	07-70-00524	FRESH WATER PUMP	EZ 61001	9
26-	07-70-00525	OIL PUMP COMPL	EN 07527	9
27-	07-70-00526	LINER PACKING (RUBBER)	EN 32534	36
28-	07-70-00527	RUBBER PACKING WATER PIPE PASSAGE	EC 31272	36
29-	07-70-00528	DITTO	EH 31013	36
30-	07-70-00529	MAIN METAL	EZ 10083	9
31-	07-70-00530	HAIN METAL	EZ 10084	36
32-	07-70-00531	PISTION PIN METAL	EN 42019A	36

ITEM	CODE NO.	DESCRIPTION	PART NO.	QTY
33-	07-70-00532	OIL COOLER COMPL.	EY 27 313	9
	07-70-00533			
	07-70-00534			
	07-70-00535			
	07-70-00536			
	07-70-00537			
	07-70-00538			
	07-70-00539			
	07-70-00540			
	07-70-00541			
	07-70-00542			
	07-70-00543			

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT

ELEC. SPARE PART LIST FOR MIAN- DIESEL GENERATOR

ITEM	CODE NO.	DESCRIPTION	QTY	REMARKS
1	07-70-00600	BEARING	9	NO. 6318 SEALED
2	07-70-00601	BEARING	9	NO. 6314 SEALED
3	07-70-00602	SILICON ELEMENT	54	STE 01-12 (SIL)
4	07-70-00603	SPACE HEATER ELEMENT	36	50W- 50V AC
5	07-70-00604	SILCON RECTIFIER	9	ERC 16-12 T611-S(SI2)
7	07-70-00605	SILSTOR	9	A3-23 (S3) A3-23(S3)
8	07-70-00606	AUTO. VOLTAGE REGULATOR	3	AS 71-2(AVR)
9	07-70-00607	HAND TRIMMER	3	DA 25-700 (HT)
10	07-70-00608	DROOP RHEOSTAT	9	60W 3-5- (CCR)
11	07-70-00609	KEEP RELAY	6	MITSUBISHI SR-80 494B AC 110V 50 HZ
12	07-70-00610	N- F- B-	6	MITSUBISHI NF60-SB 3P DC 40 AMP WITH VVT AC 380 V 50 HZ
13	07-70-00611	N – F- B	3	MITSUBISHI NF60-SB 3P DC INST 400 AMP
	07-70-00612			
	07-70-00613			
	07-70-00614			
	07-70-00615			
	07-70-00616			
	07-70-00617			
	07-70-00618			
	07-70-00619			
	07-70-00620			
	07-70-00621			
	07-70-00622			
	07-70-00623			
	07-70-00624			
	07-70-00625			
	07-70-00626			
	07-70-00627			
	07-70-00628			
	07-70-00629			
	07-70-00630			
	07-70-00631			
	07-70-00632			
	07-70-00633			
	07-70-00634			
	07-70-00635			
	07-70-00636			
	07-70-00637			
	07-70-00638			
	07-70-00639			
	07-70-00640			

ITEM	CODE NO.	DESCRIPTION	QTY	REMARKS
	07-70-00641			
	07-70-00642			
	07-70-00643			

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT

SECTION (3)
MAIN AIR COMPRESSOR

TANABE AIR COMPRESSOR CMVA S30 C-P
SERIAL NO . 13210 ~ 13
DRAWING NO . RNE6-0451F
MODEL :- SHC-30C
TYPE :- VERTICAL , 2STAGES WATER COOLED
BORE :- L.P 88.9 , H.P 34.92
STROKE :- 76.2
PRESSURE:- 25 KG/sq.CM
REVOLUTION:- 550 R.P.M
CAPACITY :- 8cu .CM/HR
POWER REQD:- 3.5 PS

NO	CODE NO.	NAME OF PARTS	QUANTITY
1-	07-70-00700	L. P VALVE (SUCTYAN) ASSY	6 SET
2-	07-70-00701	L.P VALVE (DELIVERY) ASSY	6 SET
3-	07-70-00702	PISTON RING (H.P)	20
4-	07-70-00703	PISTON RING (L.P)	12
5-	07-70-00704	MAIN BEARING	6
6-	07-70-00705	CONNECTING ROD	3
7-	07-70-00706	CONN. ROD BEARING	6
8-	07-70-00707	PISTON	3
9-	07-70-00708	PISTON PIN BUSH	3
10-	07-70-00709	PISTON PIN	3
11-	07-70-00710	CYLINDER	3
12-	07-70-00711	UNION VALVE ASSY (H.PVALVE)	6 SET

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT

SPARE PARTS FOR PORELLER – RUDDER DEVICE (Z- PELLER)
MODEL ZP – S5

1	07-70-00800	A-FIG L732.5107C - UPPER CASE ASSY .		3
2	07-70-00801	4- STEERING BEVEL LA1 PORT NO		3
3	07-70-00802	6- STEERING BEVEL RA2		3
4	07-70-00803	B- FIG L7325202C- TURNNING CYLINDER (PORT)		3
5	07-70-00804	2- TURNNING CYLINDER	L73252301	3
6	07-70-00805	3- I NTERMEDIATE SHAT	L73252290	3
7	07-70-00806	5- SEAL CASE	N73252060	3
8	07-70-00807	7- OIL SEAL LINER	P73252080	3
9	07-70-00808	10- LINER	P73251110	3
10	07-70-00809	11- BOLT	P7325120	36
11	07-70-00810	13- BOLT	A01911025	36
12	07-70-00811	14-DISTANCE PC.	P73252150	3
13	07-70-00812	15-RETAINING	P73252160	3
14	07-70-00813	17- BEARING	P7325280	3
15	07-70-00814	18- OIL SEAL	P73252790	9
16	07-70-00815	27-GEAR COUPLING	N73252250	3
17	07-70-00816	28-GEAR COUPLING	N73252240	3
18	07-70-00817	C- FIG L7325300C Z- PELLER ASSY (LOWWER PORT)		
19	07-70-00818	1- BOTTOM GEAR	L73258000	3
20	07-70-00819	2- DRIVE BEVEL BRACICET	L73253011	3
21	07-70-00820	6- KORT NOZZIE BRACICET	L73253050	3
22	07-70-00821	7-BEARING CASE	N73253060	3
23	07-70-00822	11- BEARING CAP	P73253100	3
24	07-70-00823	12-DISTANCE PC.	P73253110	3
25	07-70-00824	18-LINER	P73253120	3
26	07-70-00825	15-LINER	P73253140	3
27	07-70-00826	16-LINER	P72353150	3
28	07-70-00827	18-RETAINING RING	P73253170	3
29	07-70-00828	29-BOIL	P73243040	12
30	07-70-00829	30-BOIT	P73253280	30
31	07-70-00830	35-PIN	P73253300	6
32	07-70-00831	36-TORGUE PIN	P73253310	18
33	07-70-00832	37-PIN	P503311342	6
34	07-70-00833	38-PACKING	E41724100	3
35	07-70-00834	51- COVER	L73243140	3
36	07-70-00835	52- PROPELLER	L7325000030	3
37	07-70-00836	54-KORTNOZZIE	L73253360	3
38	07-70-00837	55-WIRE	-----	21
39	07-70-00838	57- STERN TUBE SEALING ASSY	N7325303B	12
40	07-70-00839	FIG L732502C - TURNING CYLINDER (PORT)		
41	07-70-00840	4- SPLINE COUPLING	N73252050	3

1	07-70-00800	A-FIG L732.5107C - UPPER CASE ASSY .		3
42	07-70-00841	9- PUMP SCREW	N73252100	3
43	07-70-00842	12-STEERING BEVEL NEY	P7325210	3
44	07-70-00843	16-BEARING	N73252170	3
45	07-70-00900	20-ORINGS	P73251500	3
46	07-70-00901	21-ORINGS	P73251530	3
47	07-70-00902	22-ORINGS	P73251550	3
48	07-70-00903	25-BOIT	A00970616	3
49	07-70-00904	26-WIRE	-----	3
50	07-70-00905	FIG L732530IC Z-PELLER ASSY (PORT)		
51	07-70-00906	3- DRIVE BEVEL LA4	L73253020	3
52	07-70-00907	4- PROELLER SHAFT	L73253031	3
53	07-70-00908	17-LINER	P73253160	3
54	07-70-00909	28-PROPELLER KEY	P73235220	3
55	07-70-00910	24-BOLT	P73253230	36
56	07-70-00911	25-BOLT	P73253240	78
57	07-70-00912	33-BOLT	P10500820	3
58	07-70-00913	34-NUT	P73253291	6
59	07-70-00914	42-BEARING	P73253340	3
60	07-70-00915	44-ORNGS	P73251560	3
61	07-70-00916	45-ORINGS	P73255170	3
62	07-70-00917	46-ORINGS	P73251520	3
63	07-70-00918	48-ORING	A60200550	3
64	07-70-00919	49-ORING	P73251540	3
65	07-70-00920	50-WIRE	P73253370	3
	07-70-00921	FIG N7325303B STERN TUBE ASSY		
66	07-70-00922	1- SEALING RING	9	
67	07-70-00923	2-SLEEVE LINER	6	
68	07-70-00924	4-SPACE RING	3	
69	07-70-00925	9-ORING	3	
70	07-70-00926	12-ORING	3	
71	07-70-00927	13- BACK RING	3	
72	07-70-00928	14-WIRE	3	
73	07-70-00929	8-GASICET	3	
74	07-70-00930	8-GASICET		
75	07-70-00931	9-PUMP SCREW	N73252140	3

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT

TENDER 4/99

HULL NO. 1570B

MAIN ENGINE . N11GATA PC2 - 5L (4600BHP)

ENGINE NO. 53249

	07-70-01000	DESCRIPTION	DRAWING NO.	PART NO.	
1	07-70-01001	MAIN BEARING SHELL (TOP)	112-031100	FIG-1-4-4	9
2	07-70-01002	MAIN BEARING SHELL (BOTT.)	112-031110	FIG-1-4-5	9
3	07-70-01003	ANCHOR BEARING SHELL (TOP)	112-031320	FIG-1-5-4	1
4	07-70-01004	ANCHOR BEARING SHELL(BOTT.)	112-031330	FIG-1-5-5	1
5	07-70-01005	CYLINDER LINER WITH JOINT RINGS	112-171041	FIG-2-2-1	8
6	07-70-01006	PISTON ASSY WITH PISTON PIN END PISTON RINGS	112-19002A	FIG-2-3	8
7	07-70-01007	CONNECTING ROD ASSY WITH SMALL END BUSH AND BIG EHD BOITS	112-21000C	FIG-2-4	8
8	07-70-01008	BIG END BEARING SHELL (TOP)	112-210430	FIG-2-4-4	8
9	07-70-01009	BIG END BEARING SHELL (BOTT)	112-210420	FIG-2-4-3	8
10	07-70-01010	CYLINDER HEAD ASSY WITH VALVES	112-3200012	FIG-3-1	8
11	07-70-01011	FUEL INJECTOR ASSY	112-32303C	FIG-4-1	8
12	07-70-01012	NOZZLE (0.65&X10 HOLES)	212-323	FIG-4-1,9,160	24
13	07-70-01013	LOCATING PIN	312-329700	FIG-4-1-120	48
14	07-70-01014	FUEL INJECTION PUMP ASSY DKC NO. 4196-010	112-47001A	FIG-4-3	8
15	07-70-01015	O RING FOR CYLINDER COOLING WATER ELBOW	A60-510290	FIG-2-2-19	50
16	07-70-01016	O RING FOR CYLINDER COOLING WATER VENT	312-590800	FIG-2-2-24	50
17	07-70-01017	JOINT RING FOR PISTON SKIRT (327X5)	312-194900	FIG-2-3-7	16
18	07-70-01018	JOINT RING FOR PISTON PIN BLOCK PIPE 46,99X5,33)	312-194300	FIG-2-3-14	16
19	07-70-01019	JOINT RING FOR EXHAUST V/V CAGE 115× 5	312-325920	FIG-3-4-28	32
20	07-70-01020	JOINT RING FOR EXHAUST V/V COOLING WATER PIPE (23X3,53)	312-325940	FIG-3-4-20	10 0

MINISTRY OF TRANSPORT & COMMUNICATION
 IRAQI STATE CO. FOR WATER TRANSPORT

		DESCRIPTION	DRAWING NO.	PART FIG (NO.)	QUNT
1	07-70-01100	JOINT RING FOR CYLINDER HEAD COVER (BOTT)	312-327500	3-9-115	161
2	07-70-01101	JOINT RING FOR CYLINDER HEAD COVER (TOP)	312-327600	3-9-127	16
3	07-70-01102	JOINT RING FOR FUEL INJECTIOR BODY	A60-570340	4-1-12	32
4	07-70-01103	JOINT RING FOR FUEL INJECTIOR COOLING PIPE	A60-570110	4-1-13	100
5	07-70-01104	JOINT RING FOR FUEL INJECTIOR PIPE CONNECTION	A60-520250	4-2-5	24
6	07-70-01105	JOINT RING FOR SLEEVE	A60-200450	4-2-8	24
7	07-70-01106	JOINT RING FOR AIR MANIFOLD	312-351700	8-40-9	15
8	07-70-01107	JOINT RING FOR COOLING WATER MAIN PIPE	312-596000	15-1-6	64
9	07-70-01108	METAL JOINT FOR CYLINDER HEAD GAS SEAL JOINT	312-171300	2-2-11	15
10	07-70-01109	METAL JOINT FOR INJECTION PUMP INLET AND OUTLET	312533200	4-3-41	22
11	07-70-01110	METALJOINT FOR EXHAUST MANIFOLD BELLOWS	312-362300	8-41	22
12	07-70-01111	METAL JOINT FOR CYLINDER OUTEL FLANGS	312-362200	8-55	16
13	07-70-01112	METAL JOINT FOR INJECTOR GOS SEAL JOINT	312-329300	4-1-6	16
14	07-70-01113	JOINT FOR CYLINDER HEAD COVER	112-326400	3-9-3	8
15	07-70-01114	BALL BEARING FOR CAMSHAFT THRUST BRG.	A73-204170	5-6-98	1

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT

SPARE PARTS FOR M/E REMOTE CONTROL. SYSTEM

	CODE NO.	DESCREPTION	PART NO.		QUNTY
1	07-70-01200	NO34 RELAY	FBV 34L(6/1/1)	AC 100V	32
2	07-70-01201	NO 34 RELAY	FBV 34K41/1	DC 24V	10
3	07-70-01202	MICRO RELAY	FBV 153A51/1		11
4	07-70-01203	REED RELAY	H-5-20		3
5	07-70-01204	FLICKER RELAY	MKF-P(SEC)	24V (DC)	1
6	07-70-01205	TIMING RELAY	611TP-ZSEC	DC24V	1
7	07-70-01206	SILICON STACK	DS 10 BN-L		2
8	07-70-01207	AMAPLIFIAR	H-18-18-12		1
9	07-70-01208	POTENTIOMETER	H-4-58B	{5W-1K2}	1
10	07-70-01209	MICRO SWITCH	Z-15GWZZ55		2

SPARE PARTS FOR M/E TURBO BLOWER
(VTR 401-2)

	CODE NO.	DESCREPTION	PART NO.	QUNTY
1	07-70-01300	BEARING UNIT COMPLETE-BLOWER SIDE	NO.	1SET
2	07-70-01301	BEARING UNIT COMPLETE-TURBINE-SIDE	NO.498896	1SET
3	07-70-01302	SEALING BUSH	NO.409109	1
4	07-70-01303	SEALING BUSH	NO.409108	1
5	07-70-01304	SEALING BUSH	NO.406205	1
6	07-70-01305	OIL PUMP COMPLETE – BLOWER SIDE	NO.491500	1SET
7	07-70-01306	OIL PUMP COMPLETE – TURBINE SIDE	NO.491400	1SET

SPARE PARTS FOR CPP REMOTE CONTROL SYSTEM.

	CODE NO.	DESCREPTION	PART NO	QUNTY.
1	07-70-01400	RELAY 091112013	OMORO N-MY4-DC24V	3
2	07-70-01401	TIMER 272005400(60 PLC)	OMORO N-DTS-Y 60	2
3	07-70-01402	RELAY 091012034	FUTITSU -FBV-34K 41/1	2
4	07-70-01403	DIODE	HITACHI VO6C	10
5	07-70-01404	CAM SWITCH 272005252	YOSHIDA YC-2M-8CO1	1
6	07-70-01405	DIODE	TOSHIBA-6GC-1C	2
7	07-70-01406	RELAY 091112013	OMRO N –MY4-DC24V	2
8	07-70-01407	PRINTED CARD BOARD 320193480	PS1	1
9	07-70-01408	PRINTED BOARD	CL1	1
10	07-70-01409	PRINTED BOARD	CC2	1
11	07-70-01410	PRINTED BOARD	LX1	1
12	07-70-01411	PRINTED BOARD	DO1	1
13	07-70-01412	POTENTIOMETER 044000232	SK	2
14	07-70-01413	MICRO SWITCH 093019012		2
15	07-70-01414	MICRO SWITCH-OMRO N-	V-15-1C	2
16	07-70-01415	POTENTIOMETER	10K-	1

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT

SPARE PARTS FOR NIIGATA DIESEL ENGINE
MODEL 6L (MG) 22 X
NIIGATA ENGINEERING CO., LTD. TOKYO, JAPAN

ITEM	CODE NO.	DESCREPTION	PART NO.	QUNTY
1 -	07-70-01500	CYLINDER LINER ASSY	429 17000B	18
2-	07-70-01501	GASKET	629 171300	18
3-	07-70-01502	O-RING	629 171200	36
4-	07-70-01503	PIPE	629 324900	48
5-	07-70-01504	O-RING	677 501200	48
6-	07-70-01505	CAM SHAFT BEARING	529 131300	48
7-	07-70-01506	MAIN BEARING MATEL (A) (STD)	429 03170A	6
8-	07-70-01507	MAIN BEARING MATEL (A) (0.25)	429 03171A	6
9-	07-70-01508	MAIN BEARING MATEL (0.5)	429 03172A	6
10-	07-70-01509	MAIN BEARINGMATEL (0.75)	429 03173A	6
11-	07-70-01510	MAIN BEARING MATEL (1.0)	429 03174A	6
12-	07-70-01511	MAIN BERING MATEL (B)(STD)	429 03190A	15
13-	07-70-01512	MAIN BERING MATEL (0.25)B	429 03191A	15
14-	07-70-01513	MAIN BERING MATEL(0.5)	429 03192A	15
15-	07-70-01514	MAIN BERING MATEL (0.75)	429 03193A	15
16-	07-70-01515	MAIN BERING MATEL (1.0)	429 03194A	15
17-	07-70-01516	THRUST BEARING MATEL	429 03150A	6
18-	07-70-01517	CRANK SHAFT ASSY	629 09030A	1
19-	07-70-01518	CRANK GEAR ASSY	629 09100A	2
20-	07-70-01519	PISTON	429 190000	6
21-	07-70-01520	COMPRESSION RING (1)	629 191000	18
22-	07-70-01521	COMPRESSION RING (2)	629 191100	36
23-	07-70-01522	OIL-SCRAPING RING	529 19310A	36
24-	07-70-01523	PISTON PIN	629 190801	6
25-	07-70-01524	SNAP RING	629 194200	12
26-	07-70-01525	CONNECTING ROD ASSY	629 21010A	6
27-	07-70-01526	CONNECTING ROD BOLT ASSY	629 21070A	6
28-	07-70-01527	CAM SHAFT GEAR	529 232500	2
29-	07-70-01528	IDLE GEAR NO.1 ASSY	626 26010A	3
30-	07-70-01529	IDLE GEAR NO .2	529 260100	3
31-	07-70-01530	STARTING AIR PILOT VALVE ASSY		3
32-	07-70-01531	PILOT VALVE ASSY		3
33-	07-70-01532	ROLLER GUIDE ASSY	626 31060A	6
34-	07-70-01533	ROLLER ASSY	926 31090A	6
35-	07-70-01534	FUEL ROLLER GUIDE ASSY	629 31080A	6
36-	07-70-01535	ROLLER ASSY	629 31110A	6
37-	07-70-01536	PUSH ROD ASSY	926 31160A	6
38-	07-70-01537	HEAD GASKET	629 324101	36

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT

ITEM	CODE NO.	DESCRIPTION	PART NO.	QUNTY
39-	07-70-01600	CYLINDER HEAD	429 320002	6
40-	07-70-01601	SEAT RING	629 321000	48
41-	07-70-01602	VALVE GUIDE	629 321101	48
42-	07-70-01603	INTAKE VALVE	529 320300	24
43-	07-70-01604	EXHAUST VALVE	529 320400	24
44-	07-70-01605	ADJUSTING BOLT	926 324700	42
45-	07-70-01606	STARTING AIR VALVE ASSY	429 32310A	18
46-	07-70-01607	STARTING VALVE ASSY	629 32320A	18
47-	07-70-01608	FUEL INJECTION VALVE ASSY		18
48-	07-70-01609	NOZZLE	529 322501	72
49-	07-70-01610	INDICATOR COCK ASSY	629 32431A	12
50-	07-70-01611	GASKET	529 362200	18
51-	07-70-01612	GASKET	629 362000	18
52-	07-70-01613	GASKET	629 362100	6
53-	07-70-01614	COOLING WATER PUMP ASSY (WITH GEAR)		6
54-	07-70-01615	LUBRICATING OIL PUMP ASSY	629 43010A	3
55-	07-70-01616	GEAR ASSY	629 43020A	3
56-	07-70-01617	LUB-OIL REGULATING VALVE ASSY	426 43200A	3

ITEM	CODE NO.	DESCREPTION	PART NO.	QUNTY
57-	07-70-01700	GOVERNOR DRIVING DEVICE		3
58-	07-70-01701	FUEL INJECTION PUMP ASSY	429 4700B	18
59-	07-70-01702	PLUNGER ASSY	629 47020A	18
60-	07-70-01703	DELIVERY VALVE	629 47060A	18
61-	07-70-01704	F.P INLET PIPE.(1)	629 53150A	15
62-	07-70-01705	HOLLOW BOLT	E20 401700	18
63-	07-70-01706	INJECTION PIPE	529 53000A	18
64-	07-70-01707	DRAIN PIPE	529 531110	18
65-	07-70-01708	DRAIN PIPE	529 531120	15
66-	07-70-01709	LUB-OIL COLER ASSY (5-8EK)	088 03020A	3
67-	07-70-01710	FILTER ELEMENT (OUTER)		6
68-	07-70-01711	FILTER ELEMENT (INNER)		6
69-	07-70-01712	FUL OIL FILTER ASSY	479 02162B	18
70-	07-70-01713	FUEL OIL FILTER ELEMENT ASSY		18
71-	07-70-01714	LUBOIL FILTER ELEMENT ASSY		18
72-	07-70-01715	FRESH WATER COOTER ASSY		3
73-	07-70-01716	AIR COOLER	776 50183A	1
74-	07-70-01717	TURBO BLOWER	776 180018	3

MINISTRY OF TRANSPORT & COMMUNICATION
 IRAQI STATE CO. FOR WATER TRANSPORT

ITEM	CODE NO.	DESCRIPTION	QUNTY
1-	07-70-01800	<p>DIESEL OIL PURIFIER QUANTITY : ONE PEC. COMPLETE TYPE : DISC BOWEL CENTRIFUGAL MODEL: SJ – 2000 PRINCIPAL ITEM: CAPACITY (NOMINAL) 2000 LIH SLUDGE MANU. DISCHARGE ATTACHMENT: - FEED PUMP: 2110 L/Hx 20M DISCHARGE PUMP:2460 L/H x20M MAKER: - MITSUBISHI – KAKOKI KAISHA LTD.</p> <p>ELECT. MOTOR: - MODEL: IF – 1325 PRINGPAL ITEM: 3.7 kW x 4P x 1425 RPM</p>	ONE COMPLET PEC
2-	07-70-01801	<p>LUB OIL PURIFIER QUANTITY: ONE PEC. COMPLETE</p> <p>TYPE: DISC BOWL ENTRIUGAL MODEL: SJ – 3000 PRINCIPAL ITEM: CAPACITY (NOMINAL): 3000L/H SLUDGE MANU. DISCHARGE ATTACHMENT. FEED PUMP: 3300L/H × 20M DISCHARGE PUMP: 20M</p> <p>MAKER : MISUBISHI-KAKOKAISHA LTD.</p>	ONE COMPLET PEC

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT

TENDER 5/99

SPARE COMPLET ENGINE (MAK),REDUCTION GEAR AND DIESEL ENGINE
GENERATOR

ITEM NO.	CODE NO.	DESCRIPTION	QUNTY
1-	07-70-01800	MARINE DIESEL ENGINE. MAK. WITH REDUCTION GEAR REQUIRED QNENPC 1st) <u>MAIN ENG.</u> ENGINE MAKE : MAK TYPE : MU 453 AK MAX. CONTINUOUS OUTPUT : 2800 HP REVOLUTIONS : 600 RPM NO. OF CYLINDER : 8 BORE : 320 MM STROKE : 420 MM AVERAGE PISTON SPEED : 8.4 M/SEC AVERAGE EFFECTIVE PRESSURE: 15.5 KP/CM 2 DIRECTION OF ROTATION :ANTI - CLOCKWISE DESIGN : PORT SIDE ENGIN	ONE COMPLET PEC
2-	07-70-01901	3rd) REDUCTION GEAR INCL. ATTACHED AUXILIARIES MAKE : LOHMANN & STOLTERFOHT AG OR SIMILAR TYPE : GUC 560 TRANS MITTED POWER : 2800 HP RATIO : ABT 2.41: 1	ONE COMPLET PEC
3-	07-70-01902	AUXILIARY DIESEL ENGINE GENERATOR M.A.N REQUIRED (3) NOS MAKE : MAN TYPE : D 2156 HM MAX. CONTINUOUS QUTPUT : 173/161 H.P REVOLUTION : 1500 R.P.M. NO. OF CYLINDER : 6 IN - LINE BORE : 121 MM STROKE : 150 MM	THREE COMPLET PECS

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT

MARINE DIESEL ENGINE .MAK. WITH REDUCTION GEAR

1st) MAIN ENGINE

ENGINE MAKE : MAK
TYPE : 8MU 453 AK
MAX. CONTINUOUS OUTPUT : 2800HP
REVOLUTIONS : 600 RPM
NO. OF CYLINDER : 8
BORE : 320 MM
STROKE : 420 MM
AVERAGE PISTON SPEED : 8.4 KP/ CM2
DESIGN : 15.5 KP/CM2

ITEM	CODE NO.	DESCRIPTION	PART NO.	SHEET	QUNT
1.0.2	07-70-02000	CYLINDER LINER	1.110102	1.1101B	8
1.0.9	07-70-02001	CYLINDER HEAD NUT	1.1110.3	1.1101B	16
1.0.11	07-70-02002	CYLINDER HEAD STUD	1.1110.7	1.1101B	16
1.0.16	07-70-02003	JOINT RING	1.01110.8	1.1101B	16
1.0.17	07-70-02004	Q-RING	1.1101.10	1.1101B	64
1.0.20	07-70-02005	Q-RING	1.01115-13	1.1101B	32
1.0.3	07-70-02006	GASKET , VARIDUS PARTS	1.1636-3	1.1636B	1
1.0	07-70-02007	CYLINDER HEAD ASSEMBLY	1.2107D	1.2107D	8
1.0-56	07-70-02008	JOINT RING	A10X13.5	1.2107D	864
1.0-57	07-70-02009	JOINT RING	A14X18	1.2107D	432
1.0-59	07-70-02010	GASKET	C10X15	1.2107D	8
1.0-60	07-70-02011	Q-RING	11.3-2.4	1.2107D	8
1.0-61	07-70-02012	Q-RING	15.3-2.4	1.2107D	8
1.1-3	07-70-02013	VALVE SEAT INSERT	1.2151-3	1.2107D	32
1.1-4	07-70-02014	THREADED INSERT	M16X32	1.2107D	16
1.1-8	07-70-02015	JOINT RING	A33X39	1.2107D	32
1.1-9	07-70-02016	JOINT RING	A42X49	1.2107D	8
1.1-10	07-70-02017	JOINT RING	A54X62	1.2107D	40
1.2	07-70-02018	EXHAUST VALVE ASSEMBLY	1.2220H	1.2220H	8
1.3	07-70-02019	INLET VALVE ASSEMBLY	1.2210L	1.2210L	8
1.8	07-70-02020	INLET VALVE ROCKER ASSEMBLY	1.3510B	1.2107D	8
1.7	07-70-02021	EXHAUST VALVE ROCKER ASSEMBLY	1.3520B	1.2107D	8
1.9	07-70-02022	VALVE GUIDE ASSEMBLY	1.2123B	1.2107D	16
00-1	07-70-02023	GASKET FOR EXHAUST MANIFOLD	1.7210-5	1.2107D	16
00-2	07-70-02024	GASKET FOR CHARGE AIR MANIFOLD	1.7230-5	1.2107D	8
00-3	07-70-02025	GOINT RING ON CYLINDER LINER	1.1101-8	1.2107D	8
00-4	07-70-02026	Q-RING FOR COOTING	1.1101-10	1.2107D	40
00-5	07-70-02027	JINT RING FOR AIRPIPE	A32X38	1.2107D	8
00-6	07-70-02028	GASKRT FOR COLLECTING	1.8310-4	1.2107D	8
1.4	07-70-02029	VALVE GUIDE ASSEMBLY	1.2123A	1.2107D	16
1.0	07-70-02030	ATARING VALVE ASSEMBLY	102240B	1.2240B	8
1.0	07-70-02031	INDICATAR AND RELIEF VALVE ASSEMBLY	1.2250A	1.2250A	4
1.0	07-70-02032	FUEL INTECTOR ASSEMBLY	1.2260A	1.2260A	8

ITEM	CODE NO.	DESCRIPTION	PART NO.	SHEET	QUNT
1.0-3	07-70-02033	NOZZLE ELEMENT	1.2260-3	1.2260A	8
1.0-7	07-70-02034	SEAL RING	29.2X3	1.2260A	16
1.0-8	07-70-02035	SEAL RING	44.2X3	1.2260A	16
1.0-1	07-70-02036	PISTON	1.2601-1	1.2601M	8
1.0-8	07-70-02037	BIG-END BEARING SHELL	1.2820	1.2601M	8
1.0-3	07-70-02038	SMALL-END BUSH	1.2810-3	1.2601M	8
1.1-4	07-70-02039	BIG-END BOLT	1.2810-54	1.2601M	16
1.1-5	07-70-02040	BIG-END BOLT	1.2810-55	1.2601M	16
1.1-6	07-70-02041	DOWEL PIN	1.2810-56	1.2601M	6
1.0	07-70-02042	SET OF PISTON RINGS	1.2617 B	1.2617 B	8
1.0	07-70-02043	ROLLER TAPPET ASSEMBLY	1.3502 L	1.3502 L	2
1.1	07-70-02044	ROLLER TAPPET FOR FUEL INJECTION PUMP ASSEMBLY	1.3565 A	1.3502 L	2
1.2	07-70-02100	ROLLER TAPPET FOR VALVE ASSEMBLY	1.3566 A	1.3502 L	2
2.0	07-70-02101	PUSH FOR ESSEMBLY	1.3570 A	1.3502 L	4
1.0	07-70-02102	PNEUMATIC SPEED CONTROL ASSEMBLY	1.4320 D	1.4320 D	1
1.0	07-70-02103	STARTING AIR DISTRBUTOR	104450 B	1.4450 A	1
1.0	07-70-02104	ENGINE CONTROL UNIT ASSEMBLY	1.4510 K	1.4510 K	1
1.1	07-70-02105	CENTERFUGAL PUMP ASSEMBLY	1.6430 A	1.6439 A	1
1.0-1	07-70-02106	SINGLE LUBRICATING OIL PUMP	1.6410 E	1.6410 E	1
1.0	07-70-02107	FUEL FEED PUMP MOUNTING ASSEMBLY	1.6480 D	1.6480 D	1
1.0-12	07-70-02108	GASKET	1.7230-5	1.7230 H	8
1.0-14	07-70-02109	GASKET	1.7230-14	1.7230 H	1
1.0	07-70-02110	OIL PRESSURE REGULATING VALVE ASSEMBLY	1.7810 G	1.7810 G	1
1.0-11	07-70-02111	GASKET	B142 X 108	1.8320 D	50
1.0-13	07-70-02112	GASKET	B 90 X 57	1.8320 D	20
1.0-24	07-70-02113	JOINT RING	A 21 X 26	1.8320 D	36
1.0-25	07-70-02114	JOINT RING	A 14 X 18	1.8320 D	20

MINISTRY OF TRANSPORT & COMMUNICATION
IRAQI STATE CO. FOR WATER TRANSPORT

SECTION (1)

MAKE : MAN
TYPE : D 2156 HM
MAX. CONTINUOUS OUTPUT : 173/161 H.P
REVOLUTION : 1500 R.P.M.
NO. OF CYLINDER : 6 IN – LINE
BORE : 121 MM
STROKE : 150 MM

ITEM	GODE NO.	DESIGANTION	PART NO.	QUINT
1-	07-70-02200	EARING CAP	51.01105-1005	6
2-	07-70-02201	COLLAR BALT	51.90020-0003	40
3-	07-70-02202	CY.LINER	51.01201-0221	20
4-	07-70-02203	SEAL	51.01901-0109	20
5-	07-70-02204	SPACER	51.91710-0015	20
6-	07-70-02205	ENGINE QASLET SET	51.0900-6129	4
7-	07-70-02206	GASKET	51.01905-0052	3
8-	07-70-02207	RETAINER RING	51.01505-0085	3
9-	07-70-02208	SEAL	51.01510-0009	3
10-	07-70-02209	DISC	51.01505-0078	3
11-	07-70-02210	CRAN SHAFT WITH	51.02101-7147	3
12-	07-70-02211	MAIN BEAING	51.01110-6156	18
13-	07-70-02212	MAIN BEARING	51.01110-6157	18
14-	07-70-02213	THRUST BEAING	51.01111-6156	3
15-	07-70-02214	THRUST BERING	51.01111-6157	3
16-	07-70-02215	DEEP GROOVE BALL BEARING	6205 DIN 625	3
17-	07-70-02216	PISTON COMP.	51.02501-7119	18
18-	07-70-02217	RING NO.1	51.02503-0169	18
19-	07-70-02218	RING NO.2	51.02503-0156	18
20-	07-70-02219	Ring NO 3	51.02503-0157	18
21-	07-70-02220	Ring NO 4	51.02503-0220	18
22-	07-70-02221	g udgeon pin	51.02502-0029	18
23-	07-70-02222	Eirclips	06.29020-0127	18
24-	07-70-02223	Conneching Rod – With port.	51.02401-6065	18
25-	07-70-02224	Big – end Bearing	51.02410-6086	36
26-	07-70-02225	Cyl. head front with	51.03101-6424	3
27-	07-70-02226	Cyl. head Rear with	51.03101-6425	3
28-	07-70-02227	Valve guides, Exhaust	51.03201-0048	18
29-	07-70-02228	Valve guides inlet	51.03201-0047	18
30-	07-70-02229	Valve seat in serts exhaust	51.03203-0058	18
31-	07-70-02230	Valve seat inserts inlet	51.03203-0057	18
32-	07-70-02231	Hex. Callar screw	51.90020-0075	50
33-	07-70-02232	Cyl. head gaster	51.03901-0221	6
34-	07-70-02233	GASKET	51.03903 -0005	6
35-	07-70-02234	Set of gaskets (for cyl. head repairs).	51.00900 – 6122	3
36-	07-70-02235	Camshaft	51.04401 - 0104	3
37-	07-70-02236	hex screw	06. 01284 - 1119	12
38-	07-70-02237	Hex scw	06.01013 - 1219	6
39-	07-70-02238	VALVE Exhaust	51.04101 - 0273	20

ITEM	GODE NO.	DESIGANTION	PART NO.	QUINT
40-	07-70-02239	Valve INLET	51.04101 – 0311	20
41-	07-70-02240	VALVE SPRING NER	51.04102 – 0002	36
42-	07-70-02241	VALVE SPRING OUTER	51.04102 - 0001	36
43-	07-70-02242	VALVE SPRING CUP	51.04103 - 0077	6
44-	07-70-02243	VALVE COTTER	51.04104 - 0017	12
45-	07-70-02300	Spring Ring	51.91330 - 0003	12
46-	07-70-02301	Rocker shaff with	51.04203 - 5020	4
47-	07-70-02302	Spring	51.97601 - 0081	12
48-	07-70-02303	Roker arm (exh aust) With	51.04201 - 5007	6
49-	07-70-02304	Adgusting screw	51.04205 - 0003	12
50-	07-70-02305	Rocker bracket	51. 04202 - 0037	6
51-	07-70-02306	Rocker arm (inlet) with	51.04201 - 5003	6
52-	07-70-02307	Valve tappet	51.04301 – 0007	12
53-	07-70-02308	Push rod	51.04302 - 5008	24
54-	07-70-02309	Main oil pump with part fig . 10 – 21	51.05100 - 6064	3
55-	07-70-02310	Socket head screw	51.90030 - 0002	3
56-	07-70-02311	Deep groove ball bearing	06.31410 - 4602	6
57-	07-70-02312	Valve piston	51.05410 - 0025	3
58-	07-70-02313	Compression pring.	51.97601 - 0110	3
59-	07-70-02314	Gasket	51.05954 - 0060	4
60-	07-70-02315	60-Full – flow oil filter	51.05501 - 7024	2
61-	07-70-02316	Gasket	81.05901 - 0009	10
62-	07-70-02317	Basket	51.05901 - 0070	4
63-	07-70-02318	Micro – top cartidge	81.05504 - 0026	6
64-	07-70-02319	Oil cooler	51.05601 - 7100	3
65-	07-70-02320	O – ring	81.96501 - 0662	10
66-	07-70-02321	Gasket	51.05902 - 0033	3
67-	07-70-02322	Edge –type filter element	51.05504-0011	6
68-	07-70-02323	Water pump repair kit	51.06599-6005	3
69-	07-70-02324	Water pump complete	-----	3
70-	07-70-02325	Gasket	51.01907-0005	6
71-	07-70-02326	Intermidiate plate	51.01707-0018	3
72-	07-70-02327	Gasket	51.08902-0006	6
73-	07-70-02328	Gasket	51.98701-0050	20
74-	07-70-02329	Gasket	06.56180-071	6
75-	07-70-02330	Nozzle holder	51.1010-0051	6
76-	07-70-02331	Nozzle with needle	51.0102-0051	24
77-	07-70-02332	Gasket	51.96501-0061	18
78-	07-70-02333	Coil spring	81.97601-0405	6
79-	07-70-02334	Pressure spindle with bush	Kf-dn-10-us10	6
80-	07-70-02335	Injection pump	51.11101-7429	3
81-	07-70-02336	Fuel left pump	51.1210-7024	1
82-	07-70-02337	Cover gasket	81.12902-0037	6
83-	07-70-02338	Left tube element	81.12503-0011	6
84-	07-70-02339	Microstar element	81.12503-0018	6
85-	07-70-02340	3- phase generator	81.26101-6012	2
86-	07-70-02341	Starter	51.26201-7048	2