

ISUZU

1/11

ISUZU MOTORS LIMITED
6-26-1, Minami-oi,
Shinagawa-ku
Tokyo 140-8722 Japan

To: Mr. Paul Fontaine
Manager - Industrial Engines & Components
ISUZU-General Motors Australia Limited

From: K.Mochizuki
Powertrain Sales Dept. No.3. Gr.2

Fax: 81 - 3 - 5471 - 1083
Tel: 81 - 3 - 5471 - 1280

Date: Jan.11th,2000
Pages: 11 (Incl.Cover)

Re : 6SD1TQW Engine Specification

Dear Fontaine San,

Attached please find the captioned specification which you have required.

Best regards,



K. Mochizuki
Powertrain Sales Dept.No.3. Gr.2

ISUZU

2/11

SPEC. NO. 6711
DATE OCT.'98

ISUZU DIESEL 6SD1TQW ENGINE SPECIFICATION
FOR
INDUSTRIAL STANDARD

 11/2/98

G. Biron
Manager ; Sales Engineering

 10/19/98

M. Yageta
Manager
International Sales Dept.
Engine Sales Division

ISUZU MOTORS LIMITED
TOKYO JAPAN

3/11

ISUZU DIESEL 6SD1T ENGINE SPECIFICATIONS

SPEC. NO. 6711
DATE OCT.98

ENGINE MODEL	6SD1TQW
CUSTOMER	AMERICAN ISUZU MOTORS INC.
APPLICATION	INDUSTRIAL STANDRD
TYPE	FOUR CYCLE. WATER COOLED, OVERHEAD CAM VERTICAL IN-LINE, DIRECT INJECTION TYPE
CYL.NO.-BORE x STROKE	6-120.0 x 145.0
DISPLACEMENT	9.839 Lit
COMPRESSION RATIO	15.7 TO 1
FIRING ORDER	1-5-3-6-2-4
RATING (SAE J1995 GROSS; PRODUCTION TOLERANCE ±5%)	
RATED OUTPUT	244 HP / 2000 rpm
MAX. TORQUE	MINIMUM 650 lbft / 1600 rpm
IDLE ENGINE SPEED	800±25 rpm
NO LOAD MAX.ENGINE SPEED	2300±25 rpm
AIR INTAKE SYSTEM	TURBOCHARGED
LUBRICATION SYSTEM	FULL FORCED PRESSURE FEED TYPE
OIL PUMP	GEAR TYPE OIL PUMP BY CRANKGEAR
ANGULARITY LIMIT	0.611 rad (35°) ALL DIRECTION
LUBRICATION OIL CAPACITY	MAX. 33 lit. MIN. 25 lit. (OIL PAN ONLY)
TYPE OF LUBRICATION OIL	API CD
COOLING SYSTEM	WATER CIRCLATION TYPE BY PRESSURIZED CENTRIFUGAL VANE TYPE BY VEE BELT DRIVEN
COOLANT CAPACITY	19.0 Lit. (ENGINE ONLY)
FAN SPEED RATIO	1.12 (CRANKSHAFT PULLEY DIA. / FAN PULLEY DIA.)

ISUZU DIESEL 6SD1T ENGINE SPECIFICATIONS

4/11

SPEC. NO. 6711
DATE OCT.'98

FUEL SYSTEM	BY PLUNGER AND NOZZLE, HIGH PRESSURE SOLID INJ. TYPE
INJECTION PUMP	ZEXEL MAKE, IN-LINE BOSCH P TYPE,
GOVERNOR	RSV VARIABLE SPEED CONTROL MACHANICAL GOVERNOR CONTAINING FUEL FEED/PRIMING PUMP
INJECTION TIMING	0.209 rad (12°) BTDC
INJ. NOZZEL OPENING PRESSURE	20.4 MPa (200 kg/Cm ²)
TYPE OF FUEL	DIESEL FUEL (SAE 2D TYPE)
ELECTRICAL SYSTEM	NEGATIVE GROUNDING SYSTEM, 24V
STARTING AID	SHEATHED TYPE GLOW PLUG
STARTER	24V-5.5kW
ALTERNATOR	24V-40A
DRY WEIGHT	APPROX. 700 kg
DIMENSIONS(L × W × H.mm)	1311 × 817 × 1158
ENGINE ASM DRAWING NO.	D11-6041
PERFORMANCE CURVE NO.	SD-6760

5/11

ISUZU DIESEL 6SD1T ENGINE SPECIFICATIONS

SPEC. NO. 6711
DATE OCT.'98

DRESS LEVEL

<u>No.</u>	<u>ITEM</u>	<u>PARTS No.</u>	<u>DESCRIPTION</u>
1	FLYWHEEL ASM; W/RING GEAR	1123305020	
1 -1	FLYWHEEL	1123313600	11.5" METRIC TYPE SCREW THREAD
2	HOUSING ASM; FLYWHEEL	1113414983	SAE #2
3	DISTANCE; FLYWHEEL HSG.	LOOSE PARTS	
4	HOLDER; BEARING, FLYWHEEL	1123390200	
5	OIL PAN ASM; W/DRAIN PLUG	1113607912	
5 -1	OIL PAN	1113615161	CENTER SUMP TYPE
6	OIL PRESSURE WARNING SW.	9827200690	OPERATIVE FROM 98.6 kPa (1.0 kg/Cm ²) NORMAL OPEN
7	OIL LEVEL GAUGE ASM	1117604170	INSTALLED ON LH SIDE
8	GUIDE TUBE	1117664271	INSTALLED ON LH SIDE FROM OIL PAN
9	OIL FILTER & COOLER ASM	1132008881	
9 -1	CARTRIDGE; OIL FILTER	1132401681	FULL FLOW FILTER
10	OIL FILTER ASM; PARTIAL	1132009690	
10 -1	CARTRIDGE; PARTIAL OIL FILTE	1132401632	QTY 2
11	PULLEY; CRANKSHAFT	1123713002	E.D. 206 mm, 3-GROOVE TYPE
12	DAMPER; CRANKSHAFT	1123751881	
13	COOLING FAN ASM	1136602950	O.D. 706 mm, 6 BLADES, BLOWER, PP
14	PULLEY; FAN	1136411421	E.D. 184 mm, 2-GROOVE TYPE
15	SPACER; FAN	9136690540	T=23
16	SPACER; FAN	9136691030	T=16
17	BELT ASM; COOLING FAN	1136712830	
17 -1	BELT; FAN DRIVE	1136712820	QTY 2, POC=1210 mm
18	WATER PUMP ASM	1136109440	HIGH FLOW TYPE
19	THERMOSTAT HOUSING ASM	1137105044	
19 -1	THERMOSTAT HOUSING	1137161681	

ISUZU DIESEL 6SD1T ENGINE SPECIFICATIONS

6/11

SPEC. NO. 6711
DATE OCT.'98

DRESS LEVEL

<u>No.</u>	<u>ITEM</u>	<u>PARTS No.</u>	<u>DESCRIPTION</u>
19 -2	WATER INLET PIPE	1137130500	
19 -3	THERMOSTAT	1137700690	OPEN 82 °C, FULL OPEN 95 °C
20	OVERHEAT WARNING SW.	8971256000	OPERATIVE TEMP. 105 °C NORMAL OPEN TYPE
21	INLET COVER ASM	1141104810	
21 -1	INLET COVER	1141122071	
22	INLET PIPE; TURBO-INLET	1141126560	
23	EXHAUST MANIFOLD ASM, FT	1141402612	
23 -1	EXHAUST MANIFOLD, FT	1141417042	
24	EXHAUST MANIFOLD ASM, RR	1141402564	
24 -1	EXHAUST MANIFOLD, RR	1141417002	
25	TURBOCHARGER ASM	1144003530	MHI TL08F-26M-28cm ³ TYPE
26	INJECTION PUMP ASM	1156031641	PE-P-S3000 TYPE
27	INJ. NOZZLE ASM; W/HOLDER	1153003601	
27 -1	INJ. NOZZLE	1153112821	MULTI-HOLE TYPE
28	FUEL FILTER ASM	1132006661	
28 -1	CARTRIDGE; FUEL FILTER	1132400441	
29	FOOT; ENGINE RH	1117711910	DUMMY
30	FOOT; ENGINE LH	1117712080	DUMMY
21	ALTERNATOR ASM	1812002493	NIKKO 24V-40A
32	STRTER ASM	1811002302	DENSO 24V-5.5KW
33	GLOW PLUG	9825139269	RATING 20.5V
34	COMPRESSOR ASM; AIR	DELETION	THEORETICAL DISCHARGE VOL.340cc/rev
35	PICK-UP; TACHOMETER	DELETION 1815105130	▽
36	CABLE ASM; STARTER-EARTH	1826502430	

7/11

ISUZU DIESEL 6SD1T ENGINE SPECIFICATIONS

SPEC. NO. 6711
DATE OCT.'98

LOOSE PARTS

<u>No.</u>	<u>ITEM</u>	<u>PRATS No.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	DISTANCE; FLYWHEEL HOUSING	1321110090	1	FOR SAE #2 FLYWEEL HOUSING
3	CONTROL RESISTANCE	1814200040	1	
4	SWITCH ASM; STARTER	8944025000	1	
5	RELAY; SAFETY	1825530390	1	

CHANGE MARK

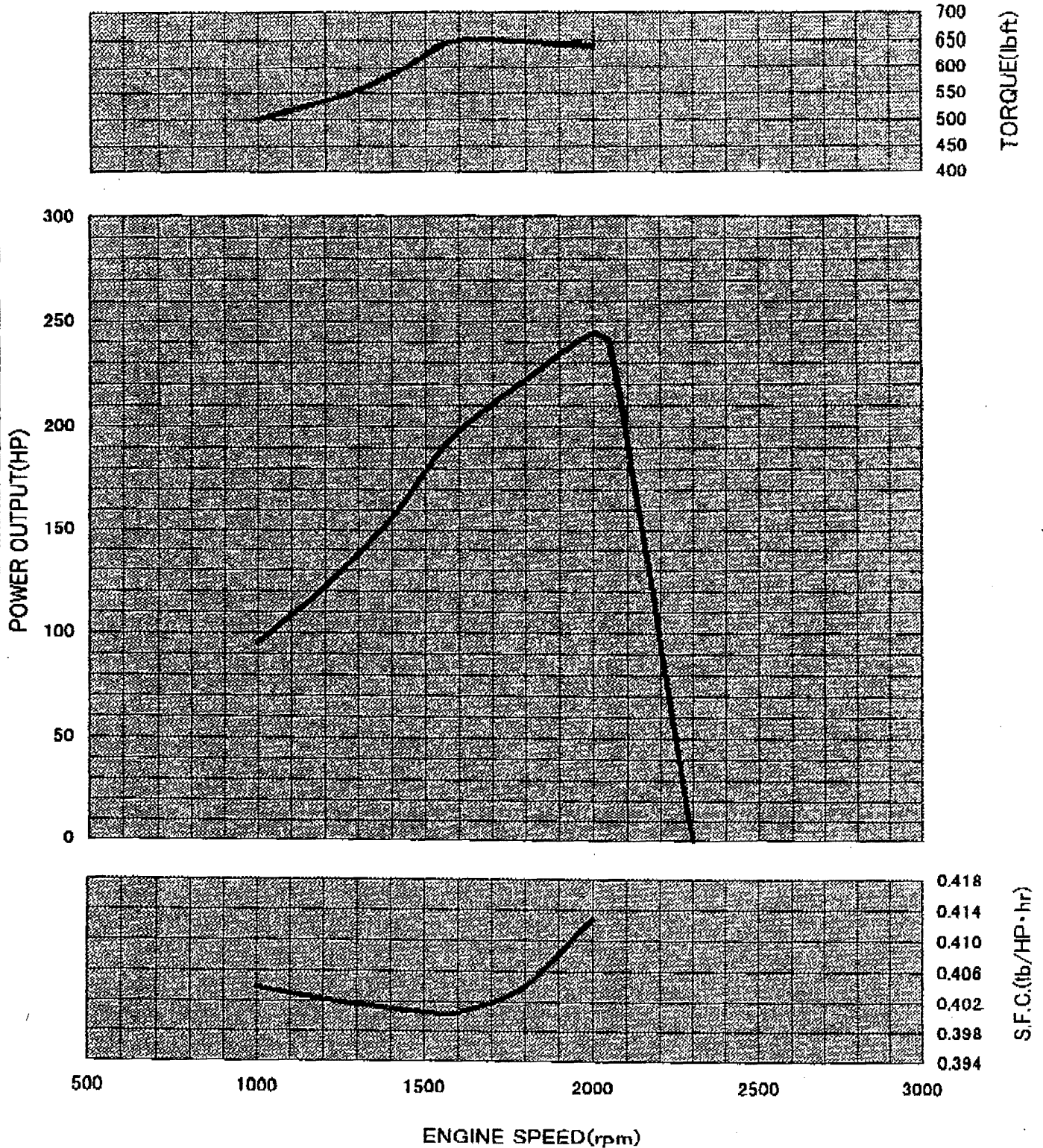
PART NAME	PART NO.	REASON FOR CHANGE
PICK-UP; TACHOMETER	1815105130	BY AIMI'S REQUEST

ISUZU

APPLICATION : INDUSTRIAL
 CONDITION : SAE J1995
 COOLING FAN : None
 INLET AND EXHAUST RESTRICTION : None
 INLET : None
 EXHAUST : None

PERFORMANCE CURVE B-6SD1TQW

RATED OUTPUT : 244 HP / 2000 rpm
 MAXIMUM TORQUE : MINIMUM 650 lbft / 1600 rpm



ISUZU MOTORS LIMITED

Sep-98

SD-6760

6SD1TQW Performance Curve:GROSS

9/11

