

Strategic Spare Parts List (Recommended Spare Parts List)

EQ/SYS.		USE		
Condensate Booster Pump		-		
No.	Description	OUTLINE	QUANTITY	REMARKS (Purpose)
TJB5-SS-MECH -CBP-001	Gasket	Part NO. 400.115 (See. attached drawing)	Refer to TJB56-L1-OFF-C -00-G-LST-0021	-
TJB5-SS-MECH -CBP-002	Gasket	Part NO. 400.116 (See. attached drawing)	Refer to TJB56-L1-OFF-C -00-G-LST-0021	-
TJB5-SS-MECH -CBP-003	O-Ring (Bearing house)	Part NO. 412.331 (See. attached drawing)	Refer to TJB56-L1-OFF-C -00-G-LST-0021	-
TJB5-SS-MECH -CBP-004	O-Ring (Bearing house)	Part NO. 412.337 (See. attached drawing)	Refer to TJB56-L1-OFF-C -00-G-LST-0021	-
TJB5-SS-MECH -CBP-005	Mechanical Seal	Part NO. 433.401 (See. attached drawing)	Refer to TJB56-L1-OFF-C -00-G-LST-0021	-
TJB5-SS-MECH -CBP-006	Bearing	Part NO. 320.345 (See. attached drawing)	Refer to TJB56-L1-OFF-C -00-G-LST-0021	-

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TJB5-SS-MECH -CBP-007	Bearing	Part NO. 320.346 (See. attached drawing)	Refer to TJB56-L1-OFF-C -00-G-LST-0021	-
TJB5-SS-MECH -CBP-008	Impeller Ring (First stage eye side)	Part NO. 503.223 (See. attached drawing)	Refer to TJB56-L1-OFF-C -00-G-LST-0021	-
TJB5-SS-MECH -CBP-009	Impeller Ring (First stage hub side)	Part NO. 503.224 (See. attached drawing)	Refer to TJB56-L1-OFF-C -00-G-LST-0021	-
TJB5-SS-MECH -CBP-010	Impeller Ring (second stage eye side)	Part NO. 503.227 (See. attached drawing)	Refer to TJB56-L1-OFF-C -00-G-LST-0021	-
TJB5-SS-MECH -CBP-011	Impeller Ring (second stage hub side)	Part NO. 503.228 (See. attached drawing)	Refer to TJB56-L1-OFF-C -00-G-LST-0021	-

CONTRACT DATA

PURCHASER: Toshiba Corporation
 USER: PT. Brunei Jati Power
 JOBS/PROJECT: Tanjung Jati B Expansion (Jawa-4) Coal Fired Steam Power Plant 2 x 1000MW
 CUST. P.O. NO.: M31200-128759
 CONDENSATE BOOSTER PUMP
 INSTALLED AT: Sulzer Pumps Indonesia
 PUMP OEM: Sulzer Pumps Ltd
 SULZER ORDER NO.: 1002817120010

IDENTIFICATION NUMBERS

SULZER SERIAL NO.	CUSTOMER TAG NOS	PUMP	DRIVER
593813	50LCS60A010	50LCS60A010	50LCS60A010M01
593814	50LCS60A010	50LCS60A010	50LCS60A010M01
593815	50LCB70A010	50LCB70A010	50LCB70A010M01
593816	60LCS60A010	60LCS60A010	60LCS60A010M01
593817	60LCB60A010	60LCB60A010	60LCB60A010M01
593818	60LCB70A010	60LCB70A010	60LCB70A010M01

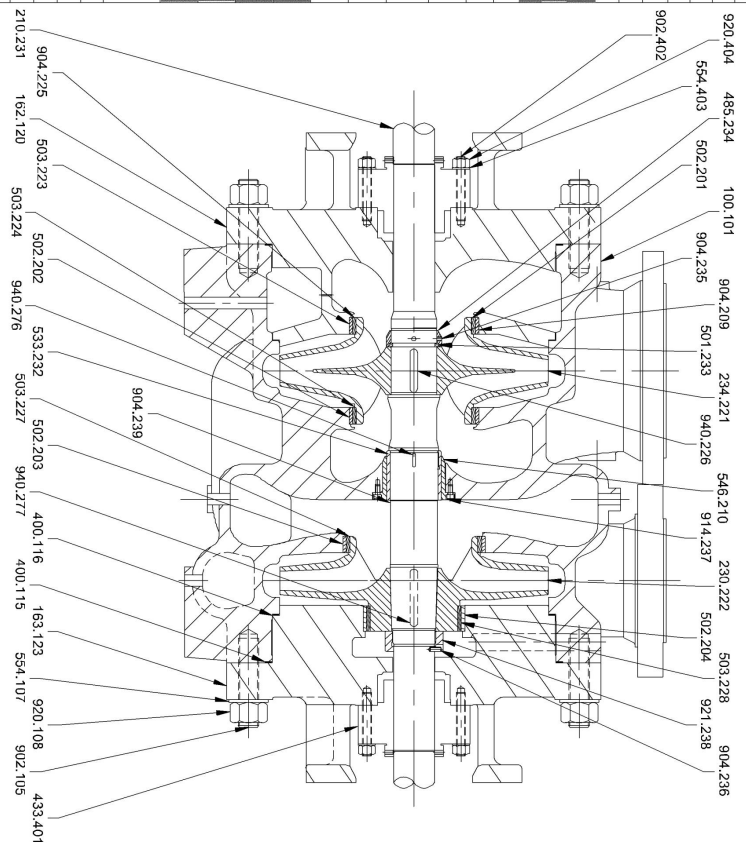
DRAWING CONTENT

SHEET NO.	SHEET DESCRIPTION
1	PUMP CROSS SECTION
2	BEARING CROSS SECTION

Project Document Number: TJB56L1-0FF-C-LCB-M-DRD-2718

Reference Drawings:

- 1) Outline Drawing TJB56L1-0FF-C-LCB-M-DRD-2624
- 2) Piping and Instrument Diagram TJB56L1-0FF-C-LCB-M-PID-2140
- 3) Datasheet TJB56L1-0FF-C-LCB-M-DAS-3636



FIND NO.	DESCRIPTION	MATERIAL	QTY
100.101	CASE	ASTM A216 Gr WC6	1
162.120	SUCTION COVER	ASTM A216 Gr WC6	1
163.123	DISCHARGE COVER	ASTM A216 Gr WC6	1
210.231	SHAFT	ASTM A276 TYPE420	1
230.222	IMPELLER (2ND STAGE)	ASTM A243 Gr CA6NM	1
234.221	IMPELLER (1ST STAGE)	ASTM A243 Gr CA6NM	1
400.115	GASKET	AISI 316 / FLEXIBLE GRAPHITE	2
400.116	GASKET	AISI 316 / FLEXIBLE GRAPHITE	2
433.401	MECHANICAL SEAL	BY SEAL VENDOR	2
485.234	RETAINER (SPLIT RING)	AISI Gr 410 275 to 325 HB	1
501.233	SPLIT RING	AISI Gr 410 275 to 325 HB	1
502.201	STATIONARY RING (1ST STAGE SUCT. SIDE)	ASTM A276 TP 420: 425 to 475 HB	1
502.202	STATIONARY RING (1ST STAGE DISCH. SIDE)	ASTM A276 TP 420: 425 to 475 HB	1
502.203	STATIONARY RING (2ND STAGE EYE SIDE)	ASTM A276 TP 420: 425 to 475 HB	1
502.204	STATIONARY RING (2ND STAGE HUB SIDE)	ASTM A276 TP 420: 425 to 475 HB	1
503.223	IMPELLER RING (1ST STAGE SUCT. SIDE)	ASTM A182 Gr F6NM: 275 to 325 HB	1
503.224	IMPELLER RING (1ST STAGE DISCH. SIDE)	ASTM A182 Gr F6NM: 275 to 325 HB	1
503.227	IMPELLER RING (2ND STAGE EYE SIDE)	ASTM A182 Gr F6NM: 275 to 325 HB	1
503.228	IMPELLER RING (2ND STAGE HUB SIDE)	ASTM A182 Gr F6NM: 275 to 325 HB	1
533.232	CENTER SLEEVE	12 Chrome stainless (0.25% Ni Max) / N-6 Hardface	1
546.210	CENTER BUSHING	Gr CA6NM: 275 to 300 HB	1
554.107	WASHER (CASE COVER)	ASTM F436, BLACK OXIDE	40
554.403	WASHER (SEAL GLAND)	BY SEAL VENDOR	8
902.105	STUD (CASE COVER)	ASTM A193 Gr B7 BLACK OXIDE	40
902.402	STUD (SEAL GLAND)	BY SEAL VENDOR	8
*901.127	Sq Hd SETSCREW (COVER JACKING)	ASTM A193 Gr B8M CL 1	4
904.209	SETSCREW (STATIONARY RING LOCKING)	AISI 316	15
904.225	SETSCREW (IMPELLER RING LOCKING)	AISI 316	12
904.235	SETSCREW (RETAINER)	AISI 316	1
904.236	SETSCREW (IMPELLER SHAFT NUT)	AISI 316	2
904.239	SETSCREW (CENTER SLEEVE)	AISI 316	2
*910.126	EYEBOLT (COVER LIFTING)	ASTM A489 or DIN C15E	4
914.237	SOCKET HEAD CAPSCREW (CENTER BUSH)	ISO 3506-1 A4-70 (316 /316L)	4
920.108	NUT (CASE COVER)	ASTM A194 Gr 2H: BLACK OXIDE	40
920.404	NUT (SEAL GLAND)	BY SEAL VENDOR	8
921.238	SHAFT NUT (IMPELLER)	AISI Gr 410 275 to 325 HB	1
940.226	KEY (1ST STAGE IMPELLER)	ASTM 12 Cr. > 180 HB	1
940.276	KEY (CENTER SLEEVE)	ASTM 12 Cr. > 180 HB	1
940.277	KEY (2ND STAGE IMPELLER)	ASTM 12 Cr. > 180 HB	1

Note 1. PARTS WITH * (NOT SHOWN)
 2. PART 554.107/902.105/920.108 TO BE PAINTED BEFORE DELIVERY

Rev. 0 **SULZER** EN PCS 1002817120010-01 1 / 2

REV.	DESCRIPTION	DATE	BY	CHECKED	DATE
1	Issue for production	2018/04/19	2018/04/19	2018/04/19	2018/04/19
2	Update according to comments	2018/02/28	2018/02/28	2018/02/28	2018/02/28
3	First issue	2018/01/15	2018/01/15	2018/01/15	2018/01/15

32	Qty of stud/washer/nut was 32
33	Updated according to comments

CONTRACT DATA

PURCHASER: Toshiba Corporation
 USER: PT.Bhumi Jati Power
 JO9/PROJECT: Tanjung Jati B Expansion (Lawas4) Coal Fired Steam Power Plant 2 X 1000MW
 CUST. P.O. NO.: M31200-128799
 INSTALLED AT: Condensate Booster Pump
 PUMP OEM: Sulzer Pumps Sulzer Ltd
 SULZER ORDER NO.: 1002817120010

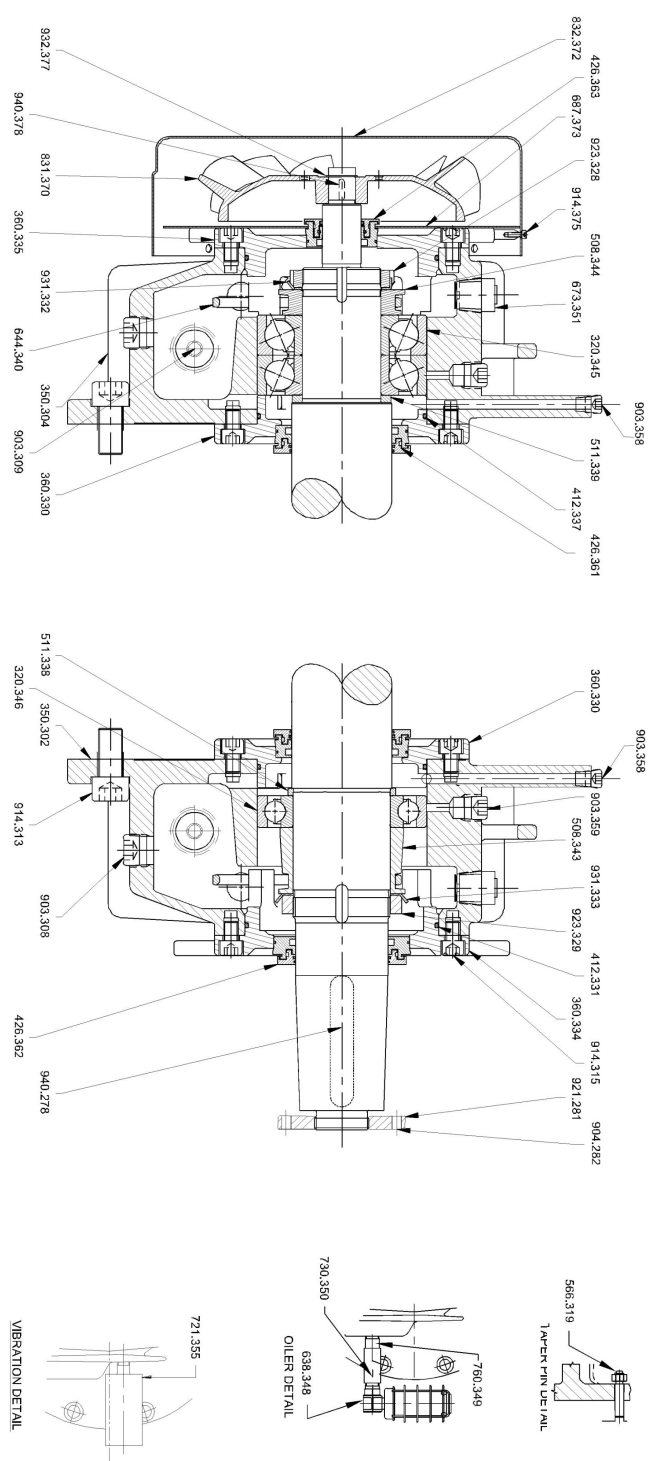
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DRAWING CONTENT

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1	PUMP CROSS SECTION
2	BEARING CROSS SECTION

Project Document Number: TJB56-L1-OFF-C-CLCB-MDRD-2718



FIND NO.	DESCRIPTION	QTY	MATERIAL	FIND NO.	DESCRIPTION	QTY	MATERIAL
920.345	ANTI-FRICTION BEARING - THRUST	2	SKF7317BE GR M P9/P5	730.330	FITTING, THD COUPLING 0.75 X 0.75NPT	2	ASTM A105 Carbon Steel
920.346	ANTI-FRICTION BEARING - RADIAL	1	SKF6220C3	760.349	NIPPLE	2	ASTM A106 GR-B
360.302	BEARING HOUSING - DE	1	ASTM A216 GR-WCB	831.370	FAN OUTBOARD - NDE	1	ASTM B56 GR-356.0
360.304	BEARING HOUSING - NDE	1	ASTM A216 GR-WCB	832.372	FAN SHROUD	1	Carbon Steel
360.300	BEARING COVER - INBOARD	1	ASTM A216 GR-WCB	903.308	THREADED PLUG - 0.75"	6	Carbon Steel Galvanized
360.304	BEARING COVER - DE	1	ASTM A216 GR-WCB	903.309	THREADED PLUG - 1.5"	2	Carbon Steel Galvanized
360.305	BEARING COVER - NDE	1	ASTM A216 GR-WCB	903.358	THREADED PLUG - 0.25"	6	Carbon Steel Galvanized
412.331	OILING COVER - OUTBOARD	2	INBR 70 (Buna N, Nitrile)	903.359	THREADED PLUG - 0.5"	8	Carbon Steel Galvanized
412.332	OILING COVER - INBOARD	2	INBR 70 (Buna N, Nitrile)	904.282	SETSCREW - SHAFT NUT	2	Alloy Steel
426.361	BEARING ISOLATOR - INBOARD	2	Bronze INPRO MAKE	914.313	CAPSCREW/SOCKET HEAD	16	ISO898-1 8.8 Zn coated
426.362	BEARING ISOLATOR - DE OUTBOARD	1	Bronze INPRO MAKE	914.315	CAPSCREW/SOCKET HEAD	16	ISO898-1 8.8 Zn coated
426.363	BEARING ISOLATOR - NDE OUTBOARD	1	Bronze INPRO MAKE	914.366	CAPSCREW/SOCKET HEAD - GUARD *	4	ISO898-1 8.8 Zn coated
508.334	OIL THROWER - DE	1	Carbon Steel	914.375	CAPSCREW/SOCKET HEAD - RAYLATED	4	ISO898-1 8.8 Zn coated
508.334	OIL THROWER - NDE	1	Carbon Steel	923.328	BEARING NUT - NDE	1	DIN934 Steel - Min UTS 350 MPa or 50 Ksi
511.338	CENTERING RING - DE	1	Carbon Steel	923.329	BEARING NUT - DE	1	DIN934 Steel - Min UTS 350 MPa or 50 Ksi
511.339	CENTERING RING - NDE	1	Carbon Steel	931.332	LOCKWASHER - NDE	1	DIN506 Steel/Min UTS 300 MPa or 42.86 Ksi
568.319	TAPER PIN	4	ISO898-1 5.8	931.333	LOCKWASHER - DE	1	DIN506 Steel/Min UTS 300 MPa or 42.86 Ksi
634.340	CONSTANT LEVEL OILER	2	TRICO 31824 (ALUMINUM GLASS)	932.377	RETAINING RING	1	PH 15-7 MO
673.351	AIR RELEASE FILTER	2	AIR RELEASE FILTER OIL-RITE AS-170.5 (GALVANIZED STEEL)	940.278	KEY - SHAFT EXTENSION	1	ASTM 120C - > 180 HB
687.373	GUARD	2	Carbon Steel	940.378	KEY	1	ASTM 120C - > 125 HB
721.355	ADAPTER VIBRATION	2	Carbon Steel	921.281	SHAFT NUT	1	Carbon Steel

PARTS WITH * (NOT SHOWN)

REV.	DATE	DESCRIPTION	BY	CHKD	APP'D
1	2018/04/19	2018/04/19			
2	2018/02/20	2018/02/20			
3	2018/01/15	2018/01/15			

REVISIONS:
 (a) Updated according to comments
 (b) Updated according to comments
 (c) Qty of stud/washer/nut was 32

REVISIONS	NO	DESCRIPTION	DATE	BY	CHKD	APP'D
1	NO	FORMAL ASSEMBLY	2018/04/19			

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