

THE FLUOR CORPORATION LTD.

DATE 8-2-56

BY CHV CHK'D.

JOB NO. 5730

P-1918 VENDOR MUST FURNISH ALL PERTINENT DATA FOR THIS SPECIFICATION SHEET BEFORE RETURNING
ITEM NO. P-1918A SERVICE Lt. Cat Gasoline Caustic Circulating Pumps

NO. REQ'D. 2	MOTOR DRIVEN, AND	DRIVEN, MFG.	United Centrifugal Pumps
LIQUID PUMPED 25° Ba Caustic	ARRANGEMENT: (HORIZONTAL)		
CORROSION OR EROSION FACTORS (13 Wt. % Caustic)	PUMP SIZE & TYPE 2" STC-A : STAGES 1		
OPERATING CONDITIONS		RPM 1750	EFFICIENCY 57.5
PUMPING TEMP. 100 °F.	DISCHARGE 84 PSIG	BHP @ RATING 2.21	MAX. BHP 3.0
CAPACITY @ P.T. 90 GPM	SUCTION 60 PSIG	BREAK-OFF CAP./FL'D'D SUCT., COLD WATER GP:	
S.P. C. GR. @ P.T. 1.19	DIFFERENTIAL 24 PSI	RECOMMENDED HP DRIVER 5.0	
VISCOS. @ P.T. 2.1 CP	HEAD 47 FT.	CONSTRUCTION	
V.P. @ FT. 1	NPSH AVAILABLE excess of 6 FT.	CASE: SW 533 PSIG @ 100° F., HYDTEST. (MAX.) 800 PS	
Barometric Pres. 12.85 psi	NPSH REQUIRED 2.5 FT.	MIN. THICKNESS 1/2" . CORR. ALLOW. 1/4"	
HYDRAULIC HP 1.5 HHP		SUPPORT TYPE: (CENTERLINE) OPEN (BRAIN)	
		IMPELLER OVERHUNG: (Yes) NO VOLUTE: ISM (Double)	

MATERIALS		BRINELL HARDNESS OF WEAR'S PARTS	SPLIT: (VERTICAL) (HORIZONTAL)
CASE: INNER	Steel		IMPELLER DIAM: SUPPLIED 7-3/8" MAX. 9" MIN. 6"
OUTER	Alloy C.I.		TYPE: (Single Suct., Double Suct.)
WEAR RINGS	SAE 4140 H.T.		EYE AREA 5.8 SQ. IN.; EYE VEL. 5.0 FT./SEC
STUDS AND NUTS	Armco Iron Asbestos Core		DIRECTION OF ROTATION FACING PUMP COUPLING XCCV
GASKETS	Cast Iron		CLEARANCE (DIAM.) WEARING RINGS 0.020
IMPELLER	Cast Iron		INTERSTG. PIECE " PRESS. RED. DRUM
WEAR RINGS			SHAFT. DIAM. MAX. 2 1/4" AT SLEEVE 1 1/2"
DIFFUSERS			AT IMP. 1 1/16" AT CPLG. 1 1/4"
INTERSTG. PIECE			SPAN C-C BRGS. 7 1/2" IMP. OVERHANG 8 1/4"
INTERSTG. BUSHING			COUPLING: MFG. Falk (SPACER)
SHAFT	4140		GUARD Yes
SHAFT SLEEVES			STUFFING BOXES: BORE " DEPTH "
INTERSTG. SLEEVE			JACKETED (YES, NO) SMOTHERING GLAND YES, NO
STUFFING BOX			PACKING: NO. RINGS " SIZE " SQ. " I.
PACKING GLAND			MECHANICAL SEAL: MAKE & TYPE "SPS" Duraseal
GLAND STUDS			(Built In) (Throat Bush'g) (Flush)
LANTERN RING			MAT'L: ROTATING FACE Stellite, STAT. FACE Carbon
THROAT BUSHING			SEAL GASKETS Synth. Rubber
BALANCING DRUM			FLUSH'G OIL TO: THROAT BUSH'G: (YES, NO), WEAR RING: YES, NO
BAL. DRUM BUSHING			BASE PLATE TYPE Drain Rim - Fab. Steel
			FLOOR SPACE REQ'D. 68" x 31 1/2"

BEARINGS: THRUST: TYPE: (BALL: TYPE NO. : LUBRICATORS (OIL: TYPE: Trico CAP: 4 oz.
RADIAL: TYPE: (BALL: TYPE NO. : LUBRICATORS (OIL: TYPE: Trico CAP: 4 oz.

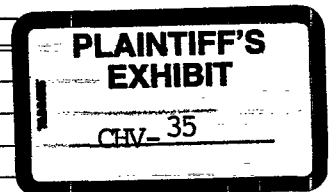
MFGR: SHALL SUPPLY THE FOLLOWING	DRAWING NO.	NOZZLES	SIZE	RATING	FACING	LOCATION
SERIAL NUMBER 71122 & 71123		SUCTION	4"	300#	R.F.	End
PERFORMANCE CURVE 57T3A - 2A		DISCHARGE	2"	300#	R.F.	Top
OUTLINE DRAWING PC-7191-S		VENTS	3/4"			
CROSS SECTION DRAWING OR BULLETIN # & PG. PA-7353X		DRAINS	3/4"			
NAME PLATE: Permanent metal label with Item No. & service shown above. Design GPM Diff. Head		COOLING WATER				

C.W. TO: BEAR'GS: THR: (YES, NO) GPM	WT. OF PUMP, LESS BASE 325 LBS.	WITNESS PERF. TEST (YES, NO)	CERT'D CURVE (YES) YES
BEAR'GS: RAD: (YES, NO) GPM	WT. OF PUMP AND BASE 725 LBS.	WITNESS HYD. TEST (YES) NO	TEST PRESS. PSI
STUFF. BOX: (YES, NO) GPM	WT. OF DRIVER 135 LBS.	SUBM. TEST (YES) (NO)	SHOP INSPECTION (YES) YES
PEDESTAL: (YES, NO) GPM	SHIPPING WT. 860 LBS.	DYNAM. BALANCING OF IMP.: (YES; NO)	

DRIVER: SUPPLIED BY Fluor	MOUNTED BY Fluor
ELEC. MOTOR, MAKE	TURBINE, MAKE
TYPE See Motor Spec	TYPE
SPECIAL INSULATION	H.P.
H.P. : RPM	PRESS. @ THROTTLE PSIG
VOLTS : PH. : CYC.	TEMPERATURE °F.
START: (LOW VOLTAGE; ACROSS LINE)	QUALITY OR SUPERHEAT
BEARINGS	BACK PRESS. PSIG
BEARINGS LUB.	WATER RATE LBS./H.P. HR.

REMARKS No copper alloy in contact with caustic.

CHEV BB
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G PE-19-15168-2

BILL OF MATERIAL				
ITEM	QTY	ITEM NAME	DESCRIPTION	MATERIAL
1	1	Pipe	30"OD x 5'-5-1/2"LG x 0.375" wt	SA285C
2	1	Pipe	30"OD x 0'-5-3/4"LG x 0.375" wt	SA285C
3	1	Pipe	6" Sch. 40, Smls, 0'-8-1/8"LG	SA53B
4	1	Pipe	2" Sch. 80, smls, 1'-5-3/4"LG	SA53B
5	1	Pipe	2" Sch. 80, smls, 0'-2-7/16"LG	SA53B
6	4	Pipe	1" Sch. 80, smls, 0'-10-1/2"LG	SA53B
7	2	Flange	30", Class 175, FFSO	SA-105
8	1	Flange	30", Class 175, RFSO	SA-105
9	1	Flange	6", Class 150, RFSO	SA-105
10	1	Flange	2", Class 150, RFSO	SA-105
11	1	Pipe Cap	30", Std wt	SA516-70
12	1	Conc. Reducer	3" x 2", X-strong	SA-105
13	1	Elbow	2", 90°, LR	SA-105
14	4	Cap	1" , 3,000# Scr'd.	SA-105
15	1	Coupling	3/4", 3,000# Scr'd.	SA-105
16	1	Plate	3"OD x 3/4"ID x 1/4"TK	SA-36
17	36	Bolts	13/16"φ x 6-1/2"LG, Stud	SA-193-B7
18	72	Nuts	13/16"φ Hex	SA-194CL2H
19	2	Gaskets	33-1/4"OD x 32"ID x 1/8"TK	Asbestos

ARM, 3/16" W x 1 1/2" LG.,
1-180° AROUND

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