



Inspection Report

Vertical Turbine Pump

Customer Name _____
 Sales Order No. _____
 Serial No. _____
 Make/Model/ Size _____
 Date Received _____

Inspected BY _____
 Prepared BY _____

Date _____
 Date _____

Number of Stages _____
 GPM _____
 TDH _____
 RPM _____

Rotation ☐ CW ☐ CCW
 N/A

Incoming Visual

Shaft Projection _____ (from seat of discharge)

Impeller Adjusting
 nut ☐ Yes ☐ No

Oil ☐ Yes ☐ No

Oiler ☐ Yes ☐ No

Packing
 Gland ☐ Yes ☐ No

Grease
 Lubrications ☐ Yes ☐ No

Top Drive
 shaft ☐ Yes ☐ No

Line Shaft ☐ Open ☐ Closed

Adjustable
 Coupling ☐ Yes ☐ No

What
 Kind _____

Any kind of Guard
 Present ☐ Yes ☐ No

What
 Kind _____

Strainer Suction ☐ Yes ☐ No

Material _____

Comments / Incoming Condition _____

Match mark Pump Before Disassembly - Number from discharge to bowl assembly

Incoming Visual Inspection

Shaft Projection- from Packing Box: _____ from Motor Seat: _____

Are the following components present?

Enclosing Tubes: YES NO Type of Lubrication: _____

Oiler: YES NO Grease Line: YES NO

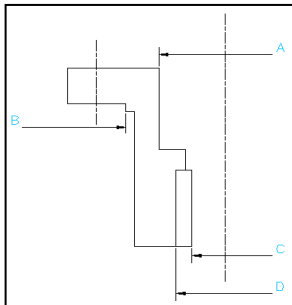
Packing Gland: YES NO Adjusting Nut: YES NO

Top Drive Shaft: YES NO Top Tube Tension Nut: YES NO

Motor Coupling: YES NO Type of Motor Coupling: _____

Guard (Mtr Cplg): YES NO Basket Strainer: YES NO

General Comments: _____

Packing Box / Tube Tension Nut

Male Fit (B): _____ Packing Bore ID (A): _____

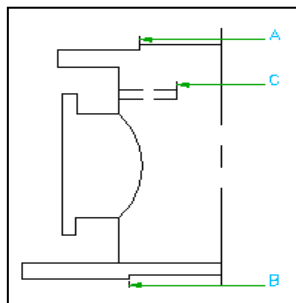
Tension Nut / Bearing ID (C): _____

Shaft Sleeve? YES NO Shaft or Sleeve OD: _____

Lip Seal? YES NO Lip Seal Bore ID: _____

Gasket? YES NO Gasket Thickness: _____

Overall Condition: _____

Discharge Head / Motor Pedestal

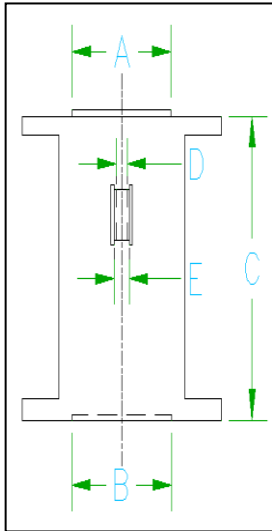
Motor Fit (A): _____ Column Pipe Fit (B): _____

Pack. Box Fit (C): _____ Discharge Location: **AG** UG

Gasket between Column and Head? YES NO

Gasket Thickness: _____

Overall Condition: _____

Column Pipes

Number of Columns: _____

Which is Elbow?: _____

Gaskets? YES NO

Gasket Thickness: _____

(Column 1 = Top, 2 = 2nd from Top, Etc.)

<u>Column</u>	<u>Top Fit (A)</u>	<u>Bottom Fit (B)</u>	<u>Length (C)</u>	<u>Spider ID (E)</u>
1	_____	_____	_____	_____
2	_____	_____	_____	_____
3	_____	_____	_____	_____
4	_____	_____	_____	_____
5	_____	_____	_____	_____

Condition of Columns (If any are damaged, indicate which ones): _____

Enclosing Tubes / Connector Bearings

(Tube 1 = Top, 2 = 2nd from Top, Etc.)

Nominal Tube Diameter: _____

Thread Dimensions: _____

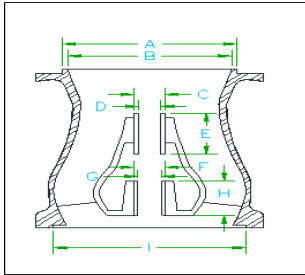
<u>Tube</u>	<u>Length</u>	<u>Tube</u>	<u>Length</u>	<u>Tube</u>	<u>Length</u>
1	_____	5	_____	9	_____
2	_____	6	_____	10	_____
3	_____	7	_____	11	_____
4	_____	8	_____	12	_____

All Tubes same Diam.? YES NO

If "NO", indicate which one / size: _____

Condition of Tubes / Connector Brgs (If any are damaged, indicate which ones): _____

General Comments: _____

Discharge Bowl

Shaft Projection past Column Seat: _____

Upper Bearing:

ID (D): _____ Fit ID (C): _____ Length (E): _____

Lower Bearing:

ID (G): _____ Fit ID (F): _____ Length (H): _____

Top Fit (A): _____ Bottom Fit (I): _____ Number of Lip Seals: _____

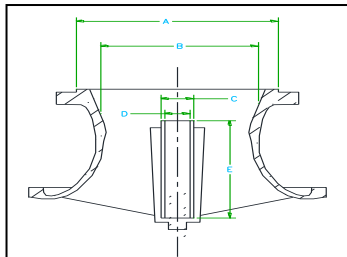
Lip Seal OD: _____ Shaft OD: _____ Lip Seal Thickness: _____

Overall Condition: _____

Propeller

Matl: _____ Blade OD: _____ Bore ID: _____ Bore Length: _____

Overall Condition: _____

Suction Bell

Liner Present? YES NO

Liner/Bowl ID (B, at top): _____

Brg ID (D): _____ Brg. Length (E): _____

Reg. Fit (A): _____ Brg. Fit ID (C): _____

Overall Condition: _____

Shafts and Couplings

	<u>Length</u>	<u>OD (at Bearing)</u>	<u>Thread Dimensions</u>	<u>Max. TIR</u>
Motor Shaft	_____	_____	_____	_____
Line Shaft 1 (top)	_____	_____	_____	_____
Line Shaft 2	_____	_____	_____	_____
Line Shaft 3	_____	_____	_____	_____
Line Shaft 4	_____	_____	_____	_____
Line Shaft 5	_____	_____	_____	_____

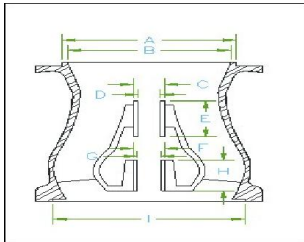
Overall Condition: _____

Shafts and Couplings (continued)Motor/Top Shaft Keyway Length: N/A Width: _____ Depth: _____Motor/Top Shaft OD at Motor Coupling: N/APump Shaft Length: 113.812" Thd. Dimensions: _____ Max. TIR: _____Pump Shaft Keyway Length: 10.000" Width: 0.625" Depth: 0.312"Pump Shaft OD at: Upper Bowl Brg: N/A Lower Bowl Brg: N/AImpeller Fit Area: N/A Suction Bell Brg: N/A

Condition of Shafts/Couplings (If any are damaged, indicate which ones): _____

Replace couplings and line sleeves. Replace shaft assembly

General Comments: _____

Intermediate Bowl (2-stage pumps only)Upper Bearing:ID (D): 2.457" OD (C): N/A Length (E): 8.000"Lower Bearing:ID (G): 2.455" OD (F): N/A Length (H): 8.000"Liner ID (B): N/A Top Fit (A): 21.000" Bottom Fit (I): 24.000"Overall Condition: Replace liner assembly and bowl bearing.Intermediate Propeller (2-stage pumps only)Blade OD: 21.000" Bore ID: 2.412" Bore Length: 5.000" – 5.750"Overall Condition: Good

Comments/Suggestions

REPLACE ALL BEARINGS, PACKING AND GASKETS.
 REPLACE BOTH LINER SECTIONS.
 CLEAN AND COAT ALL COLUMN SECTIONS AND DISCHARGE HEAD.
 REPLACE LINE SHAFTS AND COUPLINGS.
 REPLACE IMPELLER COLLETS AND NUTS.
 BALANCE IMPELLER ASSEMBLY.
 ASSEMBLE AND MATCH PAINT COLOR.

Final Checklist

*** VERIFY THE FOLLOWING ITEMS BEFORE SUBMITTING REPORT***

If any items are not completed, please complete them before submitting this report.

Are ALL fields filled in?	YES	NO	Are ALL pump components labeled with Job Number (or on a labeled skid)?	YES	NO
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Did you take photos of the following components:

Entire pump as it arrived in shop?	YES	NO	Packing Box?	YES	NO
Discharge Head / Motor Pedestal?	YES	NO	Enclosing Tubes?	YES	NO
Columns Sections?	YES	NO	Line Shafts?	YES	NO
Bowl?	YES	NO	Impeller?	YES	NO
Suction Bell?	YES	NO	Pump Shaft?	YES	NO
Any other components with abnormal wear?	YES	NO			

Inspection Completed By:

NAME

DATE