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## ENGINEERING DEPARTMENT

## Record Descriptive Specifications - Turbine

Turbine No. R2075

Gear No. BI-4

S.O. R2075

Purchased By Girdler Co. Louisville, Ky.

E- JR08-0040

For Northern Chemical Ind., Searesport, Maine

Date 3-7-55

|                         |                            |
|-------------------------|----------------------------|
| H.P. St. Conn. 2" R.H.  | Governor Std. (Small)      |
| L.P. St. Conn. None     | Speed Changer Hand         |
| Exh. Conn. 10" R.H.     | Emerg. Gov. Yes            |
| Extrac. Conn. None      | Trip Mech. Std.            |
| Steam Strainer Built-in | Low Oil Pr. Trip None      |
| Shaft Size 3" Dia.      | Thrust Brg. Ball           |
| St. End Pkg. 4 Rings    | St. End Brg. Bracket       |
| Diaph. Pkg. None        | Exh. End Brg. In Gear Case |
| Exh. End Pkg. 4 Rings   | Water Cooled Brgs. None    |
| Superheat Parts Yes     |                            |

| Valve Sizes<br>(Order of opening) |            |
|-----------------------------------|------------|
| Inlet                             | Extraction |
| 1. 1 1/2" SS                      | 1. _____   |
| 2. _____                          | 2. _____   |
| 3. _____                          | 3. _____   |
| 4. _____                          | 4. _____   |
| 5. _____                          | _____      |
| 6. _____                          | _____      |
| 7. _____                          | _____      |
| Hand Valves <u>One</u>            |            |
| Valve location on nozzle sheet    |            |

Name Plate Rating  
 Type 2CYR  
 Hp. 185  
 R.p.m. 4100  
 St. Press. 400 psig  
 St. Temp. 750 °F.  
 Exh. Press. - - psig  
 Exh. Vac. 4 In. Hg. Abs.  
 Extrac. Press. - psig  
 Rotation R. H.

Instruction Books - ~~Standard~~ No. 100 & 200

## Special Construction

Rotor assembly for 6130 RPM max. trip.  
 4920 RPM trip.  
 All steel casing for 750°F.  
 Furnish Gov. wts. for 2950 rpm only.  
 Insulation and lagging (Painted)  
 Mount purchaser's half coupling. (RNA No. 12939)  
 Gear offset to right.  
 Oil piping - 615022 - Gr. 2 - Ter. 3-10-55.

Painting Requirements: Std.

Shipping Preparation: Std. Class A Sp. 109 Gr. 2, Slushing Sp. 501

Soleplate Y-62737S

Outline 614717

Gears BI-4 Size 15 x 15

B.H.P. 185

Ratio 5.03/1

Speeds 4100/820

Baseplate Combine plate and

Soleplates under turb. and gear.

Couplings H.S. Not required.

L.S. not furnished.

Oil System Pump Size .98

Gal/100 r.p.m. Driven From Gear

Piping Material th.wl.stl.

Oil Tank In Gear Case

Oil Strainer Cuno EG

F.F. Turbine Brgs. Yes

Oil Cooler Gross RV-27

Auxiliary Pump None

F.F. Driven Mach. Brgs. None

Driven Machine

I. D. Fan (Not Furnished)

## Auxiliary Apparatus

- 1 - Cuno EG Oil Strainer
- 1 - Gross RV-27 Oil Cooler

## Copies

Specs  
 2CYR Turb.  
 BI-4 Gear  
 Turb. Eng. ✓  
 Turb. Sales