DG2 - Lubrication: Fluid Film Bearings: operation, maintenance, troubleshooting

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Turbomachinery bearings

Sleeve and tilting pad journal bearings

Thrust bearings

Babbitt bearing failures

Bearing upgrades

Clearances, preload, offset

Installation

Oil

Specific questions

Journal bearing fit – loose? Line on line? Or some crush?

Discuss API temperature sensor placement:

Journal – how many per bearing? Axial locations?

Thrust – how many?

TPJ No. of pads & orientation – LOP or LBP?

TPJ Pivot design

Experience with pivot wear?

Experience with Ball & Socket pivots?

Locking issues?

Alarm and shut down values

Bearing temperature

Rotor movement

Varnish experiences?

Solutions?

Oil types - who is using synthetics and why?