

WHY BLAME THE OIL?

WHY BLAME THE GREASE?

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WITMANS INDUSTRIES PVT. LTD.
Lubricating The Growth

LUBRICATION

ALL LOSS SYSTEMS

NOT MUCH CONCERNS, EXCEPT QUALITY

CIRCULATION SYSTEMS

GREASE PACKED BEARINGS

QUALITY & METHOD



THE KNOWN FACT

ANY FAILURE IN NEW / COMPETITORS' PRODUCTS

BLAME ON OIL / GREASE, STRAIGHTAWAY



USAGE PROBLEMS

- HYDRAULIC OILS / TURBINE OILS - **FOAMING STARTS**
- AFTER TOP UP - **SLUDGING**
- MULTISTAGE AIR COMPRESSORS - **RUSTING**
- SOLUBLE CUTTING OILS – **EMULSION BREAK / SMELL**
- RUST PREVENTIVE OILS – **HUMIDITY CHAMBER TEST FAIL**
- GREASES - **LEAKAGES**

**SO,
BLAME THE OIL?
BLAME THE GREASE?**



ACUTE ANGLE INVESTIGATION (SPECULATIVE)

- **FOAMING TENDENCY** OK
- **FOAMING STABILITY** NOT OK
- **ARV** OK / NOT OK
- **TAN** OK
- **SOLUBLE CUTTING OIL VISCOSITY** OK
- **NLGI NO. / DROP POINT** OK



WIDE ANGLE INVESTIGATION (OPERATIONAL)

THOROUGH CHECKS

- **FOAMING** ← **AIR TURBULENCE**
 - RETURN OIL FREE FALL HEIGHT IN RESERVOIR – LEVEL ADJUSTMENT
 - CONTAMINATION - CENTRIFUGING
- **SLUDGING** ← **LAYERING REACTION**
 - TOP-UP QUANTITY MAX. 10% OF RESERVOIR OIL CAPACITY
- **RUSTING IN MULTI-STAGE AIR COMPRESSORS** ← **WATER**
 - COMPOUNDED LUBE OIL



WIDE ANGLE INVESTIGATION (OPERATIONAL)

THOROUGH CHECKS

- MW OIL EMULSION BREAK / SMELL ← [EMULSION TYPE
BACTERIAL GROWTH
 - OIL-IN-WATER EMULSION
 - COMPRESSED AIR PURGING
- RP HUMIDITY CH. TEST, FAIL ← [SAMPLE POSITION
TEMP./HUMIDITY UNIFORMITY
 - NEAR / FAR TEST STRIP FROM BLOWER
- GREASE LEAKAGE / BEARING FAILURE ← [PACKING CAPACITY
S-O-O* GREASE
 - FORMULA BASED GREASE QUANTITY
 - NO CAVITY WHILE GREASE SCOOPING FROM BARRELS



CONCLUSIONS

DOUBT OIL QUALITY:

LAST RESORT

METHODOLOGY:

AAI × WAI ✓

PROBLEM SOLVING:

COMMON SENSE

CASE STUDIES DOSSIER:

TRAINING & DEVELOPMENT

HAPPY LUBRICATION PROBLEM SOLVING



THANK YOU

