



LUBRICANT
EXPO MIDDLE EAST

OPTIMIZING EQUIPMENT RELIABILITY WITH LUBRICATION MANAGEMENT

THE FOUNDATION OF RELIABILITY EXCELLENCE

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Lubricant Expo Middle East 2026

ABOUT ME...

Why should you listen to this...?



BACKGROUND	Formal Education: Bachelor's Degree in Mechanical Engineering
EXPERIENCE	16 years Lubrication, Condition Monitoring, Reliability & Asset Management.
INDUSTRIES	Oil & Gas; Pulp & Paper; Alumina Refining; Nickel & Cobalt Mining & Refining; Aviation & Cargo
LUBRICATION-SPECIFIC	• Lubrication Analysis Program Development • Lubrication Condition Monitoring Program Management • Lubrication Contract Management

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ABOUT ME...





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BOB'S RELIABILITY TURNAROUND



TABLE OF CONTENTS



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INTRODUCTION

Who is Bob, and what was happening at Paper World?

02

PAPER WORLD IN TROUBLE

What was the baseline state of Paper World's reliability & lubrication?

03

FROM CHAOS TO CONTROL

The 6 tactics of lubrication management Bob implemented

04

RESULTS & PUTTING IT ALL TOGETHER

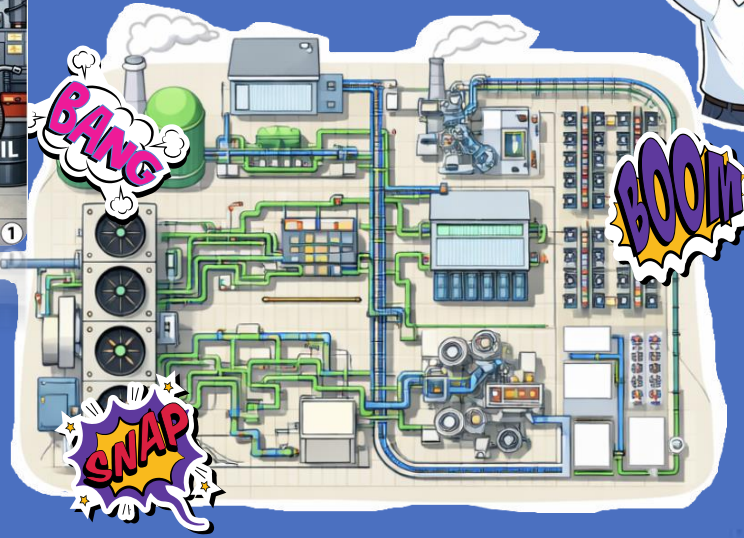
Key takeaways you can implement from Bob's learnings



THE CHALLENGE: A PLANT IN TROUBLE!!!

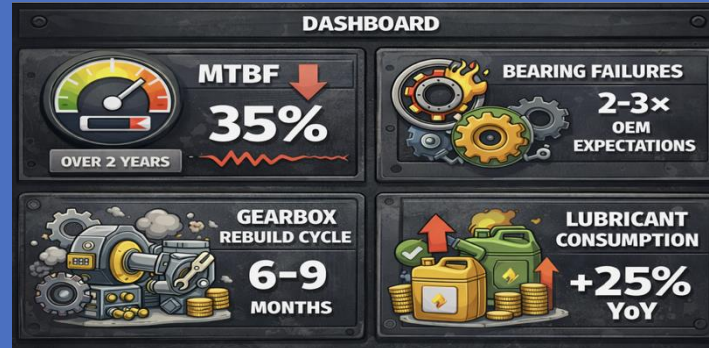
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Bob is a reliability engineer at Paper World...



THE CHALLENGE: A PLANT IN TROUBLE!!!

OMG



THE CHALLENGE: A PLANT IN TROUBLE!!!



THE REVELATION:

- ❑ Over 60% of failures had lubrication-related contributors
- ❑ Lubrication was everywhere, but managed nowhere
- ❑ The connection between reliability and lubrication management was not understood or managed

We'll examine the 6 tactics Bob implemented to turnaround equipment reliability and lubrication management at Paper World



6 LUBRICATION TACTICS



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LUBRICANT SELECTION

Right lubricant for equipment
@ the right point.



LUBRICANT HEALTH

Right quality of
lubricant.



CONTAMINATION CONTROL

The right cleanliness



LUBRICANT LEVEL/SUPPLY

Right amount of
lubricant



ROOT CAUSE & FAULT DETECTION

The right root cause(s) and
corrective action management.



SAFETY, WASTE & ENVIRONMENT

Right practices for
the planet.





6 LUBRICATION TACTICS



01

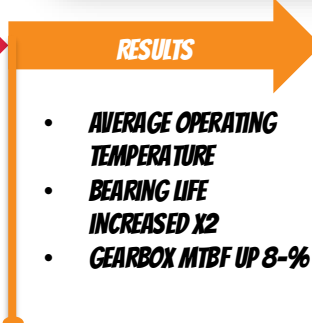
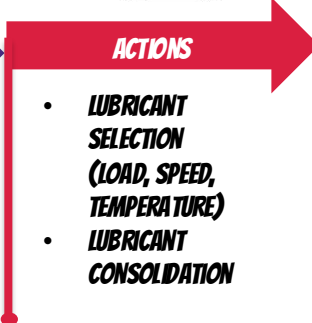
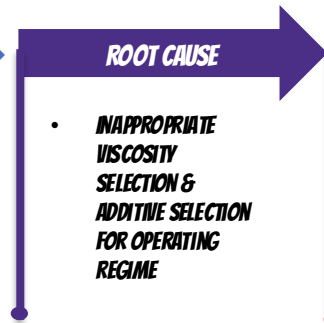


Right lubricant for equipment @
the right point.



BOB'S CASE STUDY #1

ASSET: CRITICAL CONVEYOR GEARBOX



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02



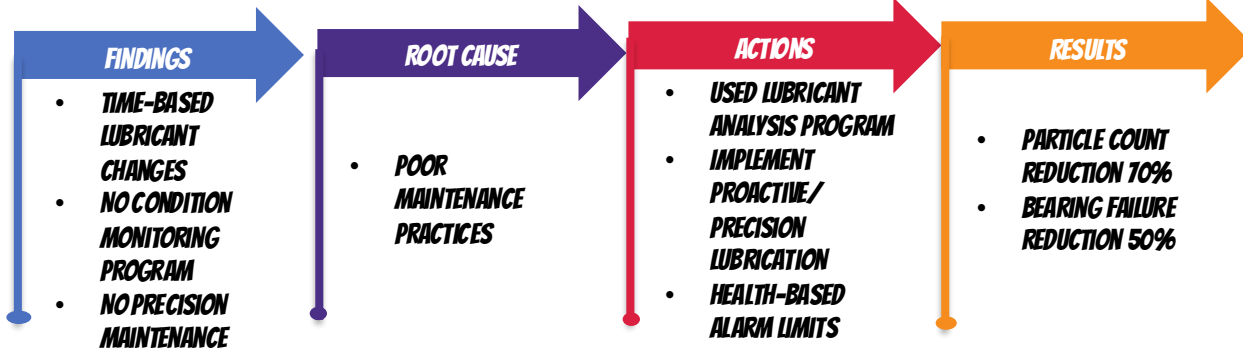
Right quality of lubricant.



BOB'S CASE STUDY #2

ASSET:

HYDRAULIC POWER UNIT



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03



The right cleanliness

BOB'S CASE STUDY #3



ASSET:

THE LUBRICATION ROOM



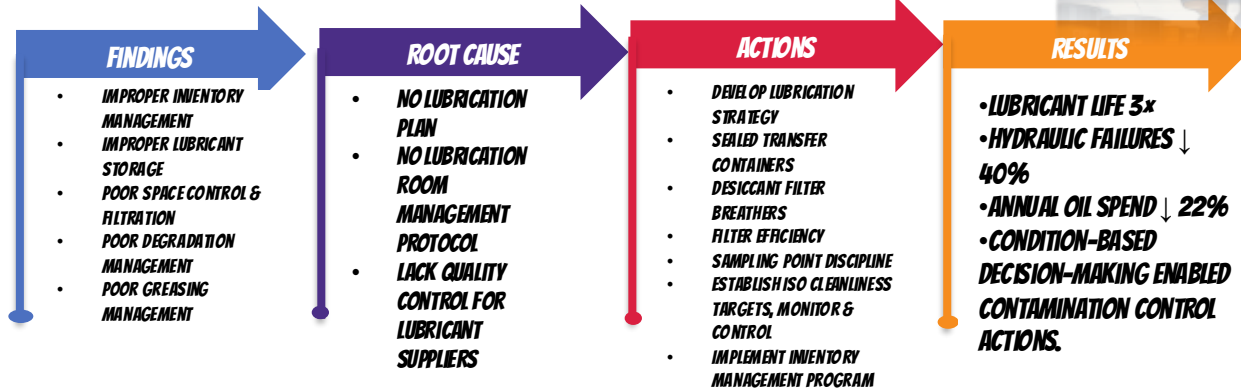
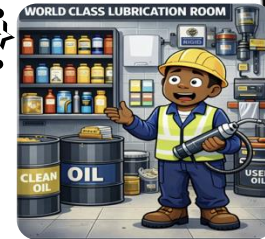
Outdoor Storage



Poor Handling



New Oil Condition



04

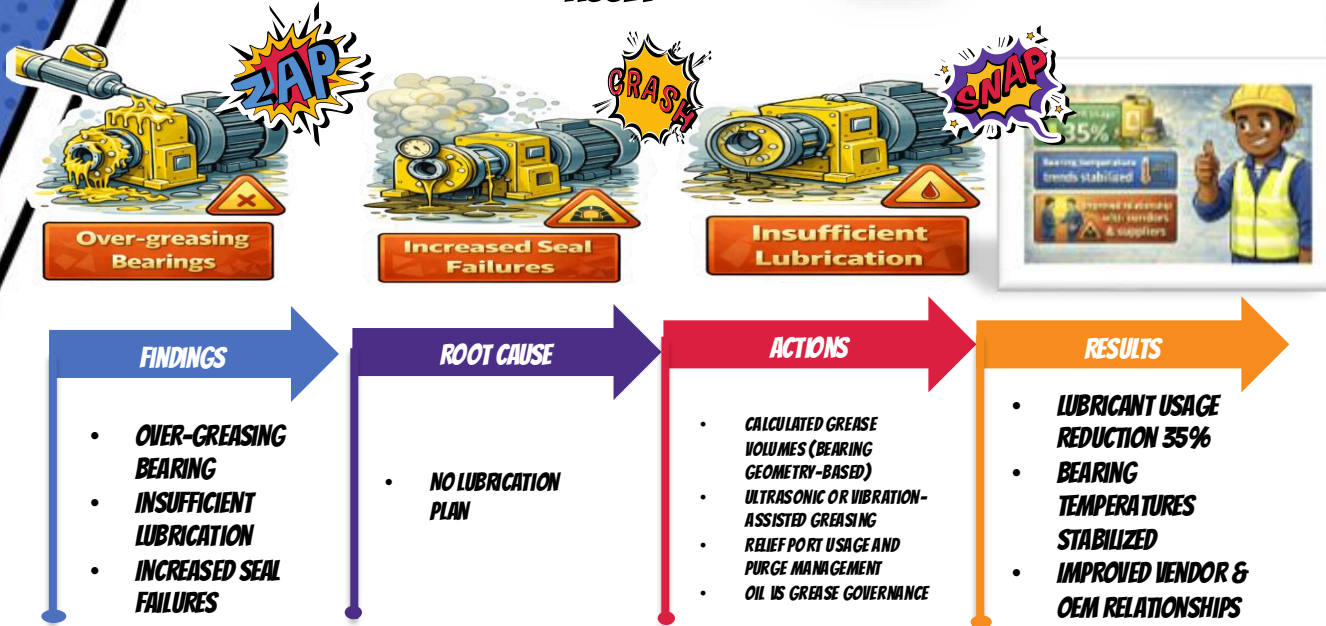


Right amount of lubricant

BOB'S CASE STUDY #4



ASSET: MOTOR-GEARBOX ASSEMBLY



05



The right root cause(s) and
corrective action management.

BOB'S CASE STUDY #5



ASSET: REPEAT LUBRICATION-RELATED FAILURES



FINDINGS

- **REACTIVE MAINTENANCE CULTURE**
- **REPETITIVE FAILURES**
- **LOW OEE, AVAILABILITY, MTBF**

ROOT CAUSE

- **MANAGEMENT INCENTIVIZING REACTIVE FAILURES**
- **REPLACE AND REPEAT CULTURE**
- **NO LUBRICATION & RELIABILITY MANAGEMENT & CONTROL**

ACTIONS

- **CBM CORRELATION**
- **FRACAS IMPLEMENTATION**
- **FAILURE MODE TRACKING**
- **RELIABILITY GROWTH ANALYSIS**
- **CULTURE CHANGE MANAGEMENT**
- **DEFECT ELIMINATION**

RESULTS

- **EARLY FAULT DETECTION**
- **ELIMINATION OF REPETITIVE FAILURES**
- **FAILURE MODE MANAGEMENT**
- **FAILURE REDUCTION**



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06

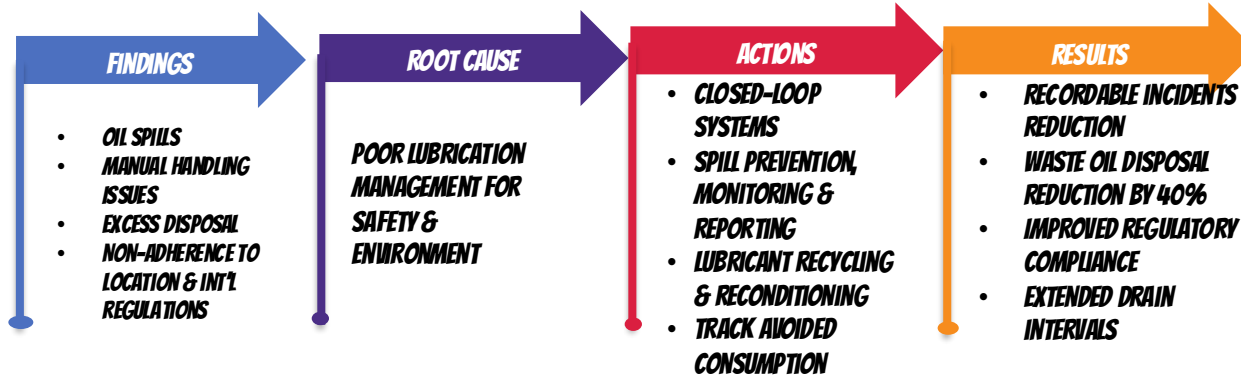


Right practices for the planet.

BOB'S CASE STUDY #6



ASSET: REPEAT LUBRICATION-RELATED FAILURES



OVERALL RESULTS

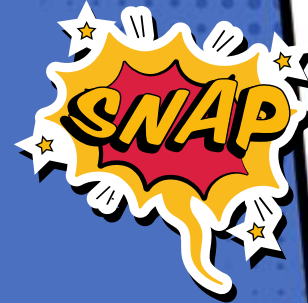
After an 18 month period of Bob's implementation of the 6 Tactics of Lubrication Management, tailored to Reliability.



KEY TAKEAWAYS

 FOR LEADERS	 FOR RELIABILITY & MAINTENANCE TEAMS	 FOR VENDORS & SPECIALISTS
• TREAT LUBRICATION AS AN ENGINEERED SYSTEM, NOT A MAINTENANCE TASK • FUND DISCIPLINE, DATA, AND STANDARDS—NOT JUST MORE ACTIVITY 	• SELECT THE <i>RIGHT</i> LUBRICANT FOR DUTY (6 RIGHTS) • PRESERVE LUBRICANT HEALTH & CLEANLINESS • APPLY PRECISION TO QUANTITY, INTERVALS, AND METHODS • USE LUBRICATION DATA FOR EARLY FAULT DETECTION AND ROOT CAUSE ELIMINATION 	• ENABLE CONTAMINATION CONTROL, CONDITION MONITORING, & SAFER PRACTICES • PARTNER ON OUTCOMES & VALUE ADDED, NOT PRODUCTS ALONE 

THANK YOU!



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Do you have any questions?

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Let's connect!!!



SCAN ME