



Review Reports

MOB 3 Sample Report

Contamination

Dirt, Water, Particle Count (ISO Code) as well as a detailed account of any Contaminants present in the ferrography. Identifies any abnormal contaminants present in the oil.

CONTAMINATION

There is a high concentration of water present in the oil. Test for glycol is positive 0.20. The ferrogram solution was diluted 100 to 1 in order to perform visual observations. Massive amounts of lubricant degradation and corrosive wear are seen in this sample and can be viewed in the attached image. Corrosive wear is a sign of the lubricant becoming acidic and attacking contact surfaces. Lubricant degradation is an indication the lubricant is breaking down. A fluid change is recommended as the lubricant will continue to deteriorate at an increase rate.

Contaminants	0	1	2	3	4	5	6	7	8	9	10	size μ	
Sand/Dirt	[Bar chart showing high level]												
Fibres	[Bar chart showing low level]												
Spheres	[Bar chart showing low level]												
Other	[Bar chart showing low level]												
Sample Date												Current	Abn
Silicon												13	15
Potassium												582	10
Sodium												14	50
Fuel (%)												0.01	2.0
Glycol (%)												0.20	0.02
Water (%)												1.30	0.1
Soot (%)												---	2.0
Sulfation												0	100
Nitration												0	100

Oil Condition

*Oil additive levels in ppm
Viscosity @ 40°C
Total Acid Number (AN)
Determines if oil is suitable for continued use.*

OIL CONDITION

Oil Type: QUAKER STATE

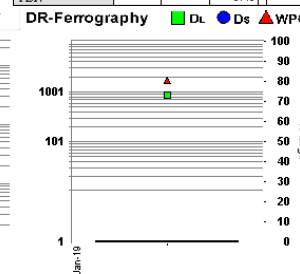
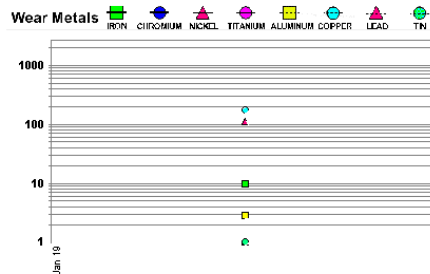
The oil is no longer serviceable due to the presence of contaminants in the oil.

Oil Condition	0	1	2	3	4	5	6	7	8	9	10	size μ	
Oil Degradat'n	[Bar chart showing high level]												
Sample Date												Current	Base
Boron												25	
Barium												0.8	
Calcium												740	
Magnesium												108	
Molybdenum												36	
Sodium												14	
Phosphorus												586	
Sulfur												2419	
Zinc												662	
Visc@40°C												---	
Visc@100°C												30.6	
Oxidation												0	---
TBN												8.40	

New oil baseline

Wear Metal Graph

All ppm wear metals charted on a log graph showing up to 25 samples chronologically. Allows for the visual identification of wear of alloyed components.



DR-Ferr Graph

Trends the total small and large particles and shows a bar graph of the percentage large particles. Demonstrates subtle changes in wear pattern for the component.

If you have any questions concerning this sample report (work order no 00845128) please call 1-800-268-2131.

The leader in oil analysis
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 Africa, Asia, Australia, Europe, North America

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