

OIL ANALYSIS REPORT



Machine Id

2415 Component Diesel Engine Fluid ROYAL PURPLE MOTOR OIL 15W40 (--- QTS)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

🔺 Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

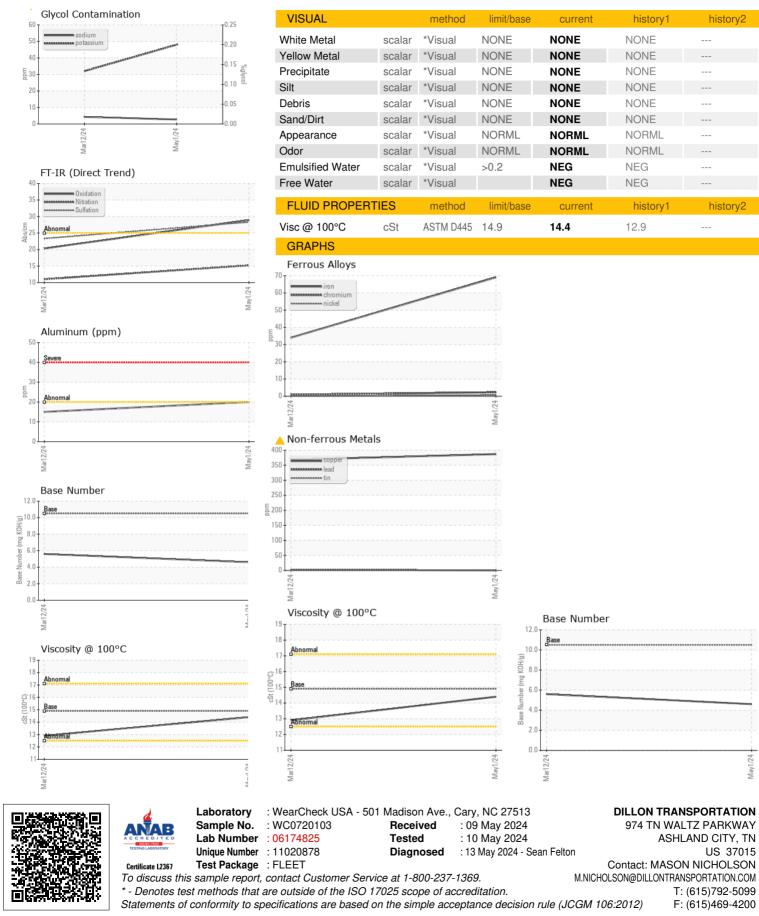
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample NumberClient InfoWC0720103WC0720085Sample DateClient Info01 May 202412 Mar 2024Machine AgemlsClient Info12887976297Oil AgemlsClient Info10000050000Oil ChangedClient InfoChangedNot ChangdSample StatusABNORMALABNORMAL	
Machine Age mls Client Info 128879 76297 Oil Age mls Client Info 100000 50000 Oil Changed Client Info Client Info Not Changed	
Oil Age mls Client Info 100000 50000 Oil Changed Client Info Changed Not Changed	
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Sample Status ABNORMAL ABNORMAL	
CONTAMINATION method limit/base current history1 histo	ry2
Fuel WC Method >5 <1.0 <1.0	
Water WC Method >0.2 NEG NEG	
Glycol WC Method NEG	
WEAR METALS method limit/base current history1 histo	ry2
Iron ppm ASTM D5185m >100 69 34	
Chromium ppm ASTM D5185m >20 2 <1	
Nickel ppm ASTM D5185m >4 <1	
Titanium ppm ASTM D5185m <1 0	
Silver ppm ASTM D5185m >3 <1	
Aluminum ppm ASTM D5185m >20 20 15	
Lead ppm ASTM D5185m >40 0 2	
Copper ppm ASTM D5185m >330 ▲ 387 ▲ 368	
Tin ppm ASTM D5185m >15 1 0	
Vanadium ppm ASTM D5185m <1 0	
Cadmium ppm ASTM D5185m 0 0	
ADDITIVES method limit/base current history1 histo	ry2
Boron ppm ASTM D5185m 0 0 2	
Barium ppm ASTM D5185m 0 0 0	
Molybdenum ppm ASTM D5185m 100 8 7	
Manganese ppm ASTM D5185m 3 1	
Magnesium ppm ASTM D5185m 60 99 91	
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