

OIL ANALYSIS REPORT

Sample Rating Trend







Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (111)

DIAGNOSIS

Machine Id 812056

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (AI) 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 Number Client Info GFL0079761 Sample Date Client Info 14 Aug 2023 Machine Age hrs Client Info 2518 Oil Age hrs Client Info 612 Oil Changed Client Info Not Changd Sample Status Imit/base current history1 history2 Fuel WC Method >3.0 <1.0 Gycol WC Method >3.0 <1.0 WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185m >20 1 Norenium ppm ASTM D5185m >2 0 Iron ppm ASTM D5185m >2 0 Silver ppm ASTM D5185m >330 0 Gycol ppm ASTM D5185m >30 </th <th>Sample Date Machine Age H Machine Age H Oil Age H Oil Changed Sample Status CONTAMINATIO Fuel Glycol WEAR METALS Iron P Chromium P Nickel P Titanium P Silver P</th> <th>ppm ppm ppm ppm ppm ppm ppm ppm</th> <th>Client Info Client Info Client Info Client Info Client Info WC Method WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m</th> <th>>3.0 limit/base >90 >20 >2 >2 >2</th> <th>14 Aug 2023 2518 612 Not Changd NORMAL current <1.0 NEG current 26</th> <th> history1 history1</th> <th> history2 history2</th>	Sample Date Machine Age H Machine Age H Oil Age H Oil Changed Sample Status CONTAMINATIO Fuel Glycol WEAR METALS Iron P Chromium P Nickel P Titanium P Silver P	ppm ppm ppm ppm ppm ppm ppm ppm	Client Info Client Info Client Info Client Info Client Info WC Method WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>3.0 limit/base >90 >20 >2 >2 >2	14 Aug 2023 2518 612 Not Changd NORMAL current <1.0 NEG current 26	 history1 history1	 history2 history2
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	Sodium p	ppm	ASTM D5185m	>158	2		
INFRA-RED method limit/base current history1 history2	Potassium p	ppm	ASTM D5185m	>20	34		
	INFRA-RED		method	limit/base	current	history1	history2
Soot % % *ASTM D7844 >6 0.4	Soot %	%	*ASTM D7844	>6	0.4		
Nitration Abs/cm *ASTM D7624 >20 8.9	Nitration A	Abs/cm	*ASTM D7624	>20	8.9		
Sulfation Abs/.1mm *ASTM D7415 >30 20.1	Sulfation A	Abs/.1mm	*ASTM D7415	>30	20.1		
FLUID DEGRADATION method limit/base current history1 history2	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Oxidation A	Abs/.1mm	*ASTM D7414	>25	16.1		
Oxidation Abs/.1mm *ASTM D7414 >25 16.1			ASTM D2896	8.5	7.4		



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OIL ANALYSIS REPORT

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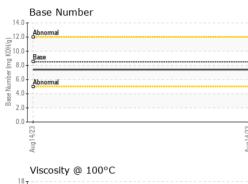
White Metal

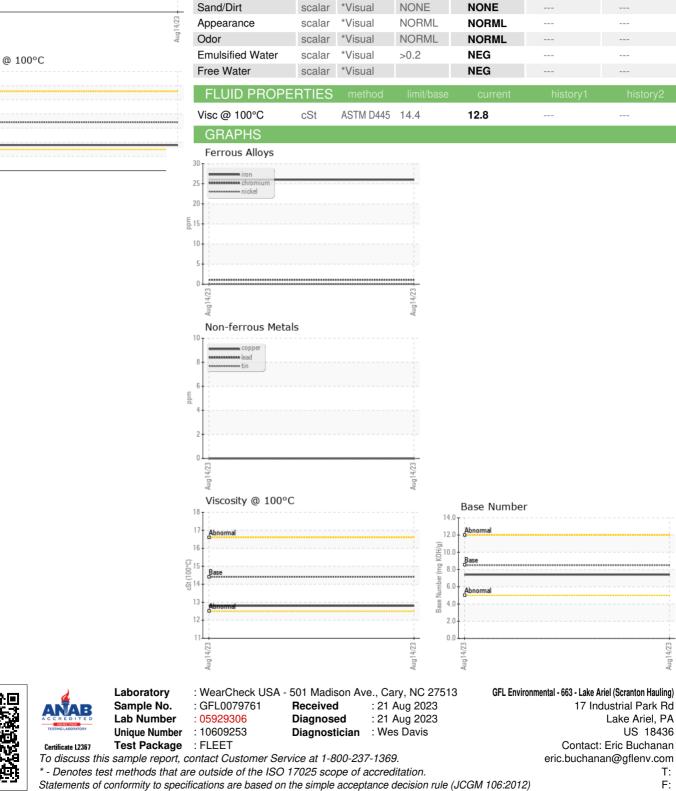
Yellow Metal

Precipitate

Silt

Debris





Submitted By: Eric Buchanan Page 2 of 2