

OIL ANALYSIS REPORT



Machine Id **6561** Component **Diesel Engine** Fluid **CITGO CITGUARD 600 15W40 (--- GAL)**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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 INFORMATION method limit/base current history1	history2
Sample Number Client Info WC0891566 WC0891581	
Sample Date Client Info 12 Apr 2024 12 Feb 2024	ļ
Machine Age mls Client Info 689676 674593	
Oil Age mls Client Info 15000 674593	
Oil Changed Client Info N/A Changed	
Sample Status NORMAL NORMAL	
CONTAMINATION method limit/base current history1	history2
Fuel WC Method >5 <1.0 <1.0	
Water WC Method >0.2 NEG NEG	
Glycol WC Method NEG NEG	
WEAR METALS method limit/base current history1	history2
Iron ppm ASTM D5185m >100 6 6	
Chromium ppm ASTM D5185m >20 <1	
Nickel ppm ASTM D5185m >4 0 0	
Titanium ppm ASTM D5185m 0 0	
Silver ppm ASTM D5185m >3 0 0	
Aluminum ppm ASTM D5185m >20 2 1	
Lead ppm ASTM D5185m >40 0 <1	
Copper ppm ASTM D5185m >330 0 <1	
Tin ppm ASTM D5185m >15 <1	
Vanadium ppm ASTM D5185m 0 <1	
Cadmium ppm ASTM D5185m 0 0	
ADDITIVES method limit/base current history1	history2
Boron ppm ASTM D5185m 13 24 42	
Barium ppm ASTM D5185m 0 0 0 0	
Molybdenum ppm ASTM D5185m 57 69 65	
Manganese ppm ASTM D5185m <1 0	
Magnesium ppm ASTM D5185m 825 476 362	
Calcium ppm ASTM D5185m 1100 1822 1700	
Phosphorus ppm ASTM D5185m 933 1198 991	
Zinc ppm ASTM D5185m 1089 1386 1187	
Sulfur ppm ASTM D5185m 2769 4207 3161	
	history2
CONTAMINANTS method limit/base current history1	
Silicon ppm ASTM D5185m >25 5 5	
Silicon ppm ASTM D5185m >25 5 5 Sodium ppm ASTM D5185m 2 <1	
Silicon ppm ASTM D5185m >25 5 5 Sodium ppm ASTM D5185m 2 2 <1	
Silicon ppm ASTM D5185m >25 5 5 Sodium ppm ASTM D5185m 2 2 <1	
Silicon ppm ASTM D5185m >25 5 5 Sodium ppm ASTM D5185m 20 2 <1	
Silicon ppm ASTM D5185m >25 5 5 Sodium ppm ASTM D5185m 2 <1 Potassium ppm ASTM D5185m 20 3 0 INFRA-RED method limit/base current history1 Soot % % *ASTM D7844 >3 0.3 0.2 Nitration Abs/cm *ASTM D7624 >20 8.0 6.7	 history2
Silicon ppm ASTM D5185m >25 5 5 Sodium ppm ASTM D5185m 2 <1 Potassium ppm ASTM D5185m >20 3 0 INFRA-RED method limit/base current history1 Soot % % *ASTM D7844 >3 0.3 0.2 Nitration Abs/cm *ASTM D7624 >20 8.0 6.7 Sulfation Abs/.1mm *ASTM D7415 >30 19.8 16.7	 history2
Silicon ppm ASTM D5185m >25 5 5 Sodium ppm ASTM D5185m 2 <1 Potassium ppm ASTM D5185m 20 3 0 INFRA-RED method limit/base current history1 Soot % % *ASTM D7844 >3 0.3 0.2 Nitration Abs/cm *ASTM D7624 >20 8.0 6.7	 history2
Silicon ppm ASTM D5185m >25 5 5 Sodium ppm ASTM D5185m 2 <1 Potassium ppm ASTM D5185m >20 3 0 INFRA-RED method limit/base current history1 Soot % % *ASTM D7844 >3 0.3 0.2 Nitration Abs/cm *ASTM D7624 >20 8.0 6.7 Sulfation Abs/.1mm *ASTM D7415 >30 19.8 16.7	 history2



OIL ANALYSIS REPORT



Report Id: OMNJOH [WUSCAR] 06149966 (Generated: 04/17/2024 13:07:32) Rev: 1

Contact/Location: BRANDON IRISH - OMNJOH