

OIL ANALYSIS REPORT

Area 52000 series Machine Id Navistar 52755

Component Diesel Engine Fluid

PETRO CANADA DURON SHP 10W30 (40 LTR)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All 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 a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

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



SAMPLE INFORMATION method limit/base current history1 history2 WC0899646 WC0785960 WC0658522 Sample Number **Client Info** Sample Date Client Info 10 Mar 2024 16 Feb 2023 27 Feb 2022 500767 Machine Age mls **Client Info** 442112 373189 Oil Age mls Client Info 58655 33864 33857 Oil Changed Client Info Changed Changed Changed ABNORMAL Sample Status NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water >0.2 NEG NEG WC Method NEG Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current historv1 history2 Iron ASTM D5185(m) >90 63 30 30 ppm >20 2 Chromium ppm ASTM D5185(m) 1 1 Nickel ASTM D5185(m) >2 <1 <1 <1 ppm >2 0 0 Titanium ppm ASTM D5185(m) <1 Silver ppm ASTM D5185(m) >2 0 0 0 Aluminum ASTM D5185(m) >20 5 4 5 ppm ASTM D5185(m) >40 6 4 2 Lead ppm Copper ASTM D5185(m) >330 2 1 1 ppm Tin ppm ASTM D5185(m) >15 1 1 <1 0 Antimony ASTM D5185(m) 0 0 ppm Vanadium ppm ASTM D5185(m) 0 0 0 0 0 Beryllium 0 ppm ASTM D5185(m) 0 0 Cadmium ppm ASTM D5185(m) 0 **ADDITIVES** method limit/base current history1 history2 Boron 2 2 7 ppm ASTM D5185(m) 1 0 Barium ppm ASTM D5185(m) O 0 0 Molybdenum 50 63 62 58 ppm ASTM D5185(m) Manganese ASTM D5185(m) 0 <1 <1 ppm <1 Magnesium ppm ASTM D5185(m) 950 1000 982 980 Calcium ppm ASTM D5185(m) 1050 1096 1110 1178 995 1074 Phosphorus ppm ASTM D5185(m) 1045 1048 Zinc ASTM D5185(m) 1180 1239 1206 1227 ppm 2542 Sulfur ppm ASTM D5185(m) 2600 2435 2473 Lithium ASTM D5185(m) ppm <1 <1 <1 **CONTAMINANTS** method limit/base current history1 history2 5 >25 23 4 Silicon ppm ASTM D5185(m) 3 2 4 Sodium ppm ASTM D5185(m) Potassium ppm ASTM D5185(m) >20 6 4 8 Fuel % ASTM D7593* >3.0 4.3 <1.0 <1.0 **INFRA-RED** method limit/base current history1 history2 Soot % % ASTM D7844* >6 1.3 0.5 0.3 Abs/cm 14.3 12.3 Nitration ASTM D7624* >20 11.0 Sulfation ASTM D7415* 25.5 22.4 Abs/.1mm >30 27.1



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CALA

ISO 17025:2017 Accredited

Laboratory

Laboratory

Sample No.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

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