

OIL ANALYSIS REPORT

Sample Rating Trend



NEW FLYER 1009

Diesel Engine

Machine Id

SAFETY-KLEEN PERFORMANCE PLUS XHD-7 15W40 (--- GAL)

SAMPLE INFORMATION WC0917646 WC0891029 WC0891048 Sample Number Client Info Sample Date Client Info 11 Apr 2024 01 Mar 2024 19 Jan 2024 1060470 Machine Age kms **Client Info** 1051570 1042848 Oil Age kms Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A SEVERE Sample Status SEVERE SEVERE CONTAMINATION Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS history? Iron ASTM D5185(m) >75 17 17 19 ppm Chromium ASTM D5185(m) >5 ppm <1 <1 <1 Nickel ASTM D5185(m) >4 <1 0 <1 ppm 0 0 ASTM D5185(m) >2 0 Titanium ppm Silver ppm ASTM D5185(m) >2 0 0 0 Aluminum ASTM D5185(m) >15 1 2 2 ppm ASTM D5185(m) >25 0 Lead ppm <1 <1 ASTM D5185(m) Copper ppm >100 <1 <1 <1 0 0 0 Tin ppm ASTM D5185(m) >4 0 Antimony ASTM D5185(m) 0 0 ppm Vanadium ppm ASTM D5185(m) 0 0 0 0 0 0 Beryllium ppm ASTM D5185(m) Cadmium 0 0 ppm ASTM D5185(m) 0 **ADDITIVES** Boron ASTM D5185(m) <1 <1 2 ppm 0 0 0 Barium ppm ASTM D5185(m) 54 Molybdenum 54 54 ppm ASTM D5185(m) Manganese ppm ASTM D5185(m) <1 0 0 Magnesium ppm ASTM D5185(m) 912 878 882 Calcium ppm ASTM D5185(m) 973 947 977 Phosphorus 920 ppm ASTM D5185(m) 922 900 Zinc ASTM D5185(m) 1107 1069 1063 ppm 2304 2408 2409 Sulfur ppm ASTM D5185(m) Lithium ASTM D5185(m) ppm <1 <1 <1 CONTAMINANTS method history 2 3 3 >25 Silicon ppm ASTM D5185(m) Sodium 1 ppm ASTM D5185(m) 1 1 Potassium ppm ASTM D5185(m) >20 <1 <1 1 Fuel % ASTM D7593* >3.0 **A** 7.2 **1**0.4 ▲ 8.8 **INFRA-RED** Soot % % ASTM D7844* >6 0.4 0.4 0.3 Abs/cm 9.4 9.6 9.9 Nitration ASTM D7624* >20 Sulfation ASTM D7415* 20.4 Abs/.1mm >30 20.6 21.2

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

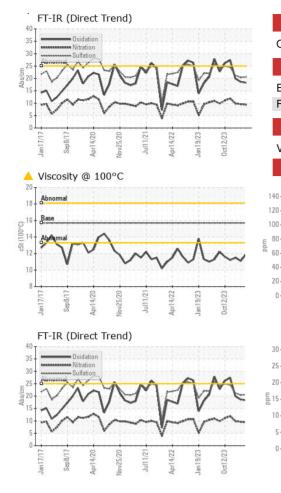
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

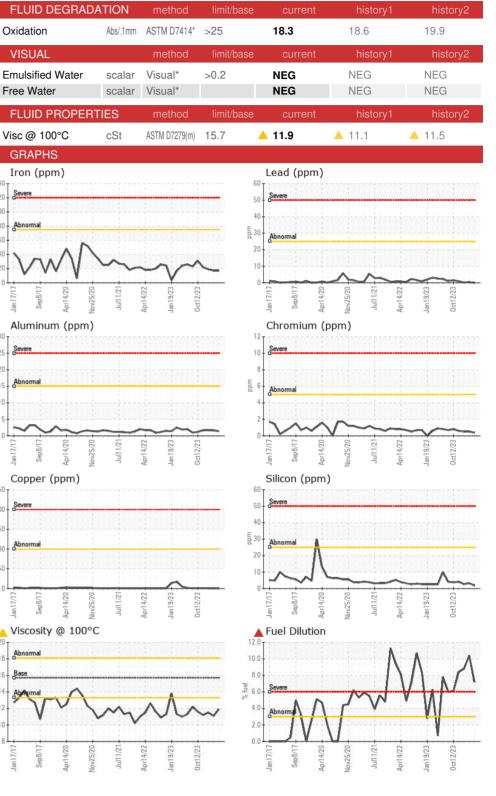
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



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Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CITY OF HAMILTON** CALA 2200 UPPER JAMES,, MOUNTAIN TRANSIT STOREROOM Sample No. : WC0917646 Received : 16 Apr 2024 Lab Number : 02629139 Tested MOUNT HOPE, ON : 17 Apr 2024 ISO 17025:2017 Accredited : 17 Apr 2024 - Wes Davis Unique Number : 5762271 Diagnosed CA LOR 1W0 Laboratory Test Package : MOB 1 (Additional Tests: PercentFuel) Contact: Jeff Parr To discuss this sample report, contact Customer Service at 1-800-268-2131. jeff.parr@hamilton.ca T: (905)546-2424 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. F: (905)679-4502

n

250

200

150 ppm

100

50

20 18

(0-001)

to 10

Report Id: HAMHAM [WCAMIS] 02629139 (Generated: 04/17/2024 09:28:15) Rev: 1

Contact/Location: Jeff Parr - HAMHAM

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