

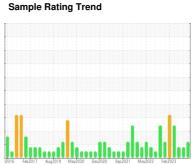
OIL ANALYSIS REPORT



NEW FLYER 1114

Component **Diesel Engine**

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





DIAGNOSIS

Recommendation

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

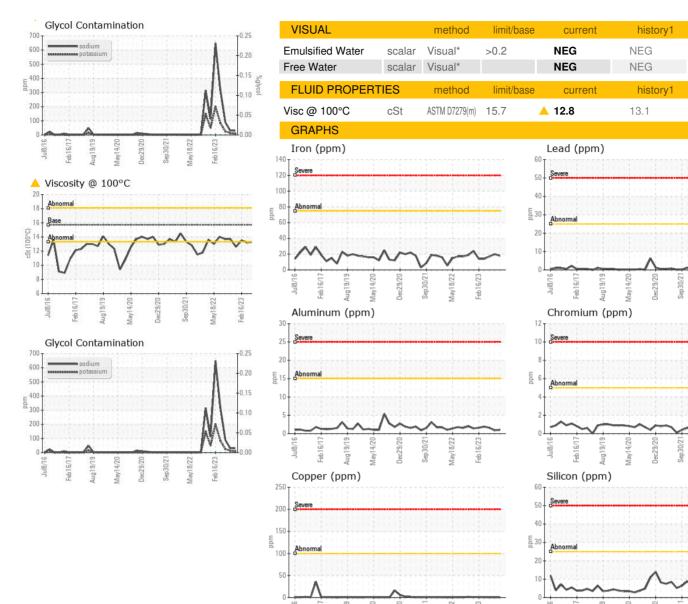
Fluid Condition

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

Sample Date Client Info 16 Aug 2023 29 Jun 2023 1	
Sample Date Client Info 16 Aug 2023 29 Jun 2023 1 Machine Age kms Client Info 771780 0 7	history2
Machine Age kms Client Info 771780 0 7	VC0791239
•	8 May 2023
Oil Age kms Client Info 0 0	52926
Oil Changed Client Info N/A N/A N	I/A
Sample Status ABNORMAL ABNORMAL A	BNORMAL
WEAR METALS method limit/base current history1	history2
lron ppm ASTM D5185(m) >75 18 20	17
Chromium ppm ASTM D5185(m) >5 <1 <1	<1
Nickel ppm ASTM D5185(m) >4 0 0	<1
Titanium ppm ASTM D5185(m) >2 0 0	<1
Silver ppm ASTM D5185(m) >2 0 0	0
Aluminum ppm ASTM D5185(m) >15 1 <1	2
Lead ppm ASTM D5185(m) >25 <1 <1	<1
Copper ppm ASTM D5185(m) >100 <1 <1	<1
Tin ppm ASTM D5185(m) >4 0 0	0
Antimony ppm ASTM D5185(m) 0 0	<1
Vanadium ppm ASTM D5185(m) 0 0	0
Beryllium ppm ASTM D5185(m) 0	0
Cadmium ppm ASTM D5185(m) 0 0	0
ADDITIVES method limit/base current history1	history2
	2
P.P. C. C. C.	0
	63
Molybdenum ppm ASTM D5185(m) 58 58	
Manganese ppm ASTM D5185(m) <1 <1	<1
Magnesium ppm ASTM D5185(m) 913 941	940
Calcium ppm ASTM D5185(m) 970 1029	1038
Phosphorus ppm ASTM D5185(m) 939 1055	1063
/Inc nnm \(\Delta \sim \Big \Big	1172
	2517
Sulfur ppm ASTM D5185(m) 2306 2394	<1
Sulfur ppm ASTM D5185(m) 2306 2394	history2
Sulfur ppm ASTM D5185(m) 2306 2394	
Sulfur ppm ASTM D5185(m) 2306 2394 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1	7
Sulfur ppm ASTM D5185(m) 2306 2394 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185(m) >25 6 6	7 91
Sulfur ppm ASTM D5185(m) 2306 2394 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185(m) >25 6 6 Sodium ppm ASTM D5185(m) 30 31	
Sulfur ppm ASTM D5185(m) 2306 2394 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185(m) >25 6 6 Sodium ppm ASTM D5185(m) 30 31	91
Sulfur ppm ASTM D5185(m) 2306 2394 Lithium ppm ASTM D5185(m) <1	91 26
Sulfur ppm ASTM D5185(m) 2306 2394 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185(m) >25 6 6 Sodium ppm ASTM D5185(m) 30 31 Potassium ppm ASTM D5185(m) >20 9 13 Fuel % ASTM D7593* >3.0 ▲ 5.6 ▲ 4.3	91 26 4.1
Sulfur ppm ASTM D5185(m) 2306 2394 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185(m) >25 6 6 Sodium ppm ASTM D5185(m) 30 31 Potassium ppm ASTM D5185(m) >20 9 13 Fuel % ASTM D7593* >3.0 ▲ 5.6 ▲ 4.3 Glycol % ASTM D7922* 0.0 0.0 INFRA-RED method limit/base current history1	91 26 4.1 0.0
Sulfur ppm ASTM D5185(m) 2306 2394 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185(m) >25 6 6 Sodium ppm ASTM D5185(m) 30 31 Potassium ppm ASTM D5185(m) >20 9 13 Fuel % ASTM D7593* >3.0 ▲ 5.6 ▲ 4.3 ▲ Glycol % ASTM D7922* 0.0 0.0 0.0 INFRA-RED method limit/base current history1 Soot % % ASTM D7844* >6 0.8 0.6	91 26 4.1 0.0 history2
Sulfur ppm ASTM D5185(m) 2306 2394 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185(m) >25 6 6 Sodium ppm ASTM D5185(m) 30 31 Potassium ppm ASTM D5185(m) >20 9 13 Fuel % ASTM D7593* >3.0 5.6 4.3 4.3 Glycol % ASTM D7922* 0.0 0.0 INFRA-RED method limit/base current history1 Soot % % ASTM D7844* >6 0.8 0.6	91 26 4.1 0.0 history2
Sulfur ppm ASTM D5185(m) 2306 2394 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185(m) >25 6 6 Sodium ppm ASTM D5185(m) 30 31 Potassium ppm ASTM D5185(m) >20 9 13 Fuel % ASTM D7593* >3.0 5.6 4.3 4.3 Glycol % ASTM D7922* 0.0 0.0 INFRA-RED method limit/base current history1 Soot % % ASTM D7844* >6 0.8 0.6 Nitration Abs/cm ASTM D7624* >20 10.7 9.9	91 26 4.1 0.0 history2 0.6 9.3



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number Unique Number

: 02577406 : 5630466

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0830096 Received

Diagnosed Diagnostician : Wes Davis Test Package : MOB 1 (Additional Tests: Glycol, PercentFuel)

: 22 Aug 2023 : 23 Aug 2023

Fuel Dilution

12.0 10.0

> 6.0 4.0 2.0 0.0

> > CITY OF HAMILTON 2200 UPPER JAMES,, MOUNTAIN TRANSIT STOREROOM MOUNT HOPE, ON

CA LOR 1W0 Contact: Jeff Parr jeff.parr@hamilton.ca T: (905)546-2424

F: (905)679-4502

To discuss this sample report, contact Customer Service at 1-800-268-2131. 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.

Viscosity @ 100°C

history2

history2

NEG

NEG

13.3