

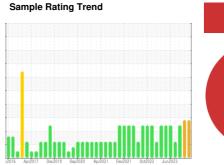
OIL ANALYSIS REPORT



NEW FLYER 1003

Component **Diesel Engine**

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





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

Metal levels are typical for a new component breaking in.

Contamination

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

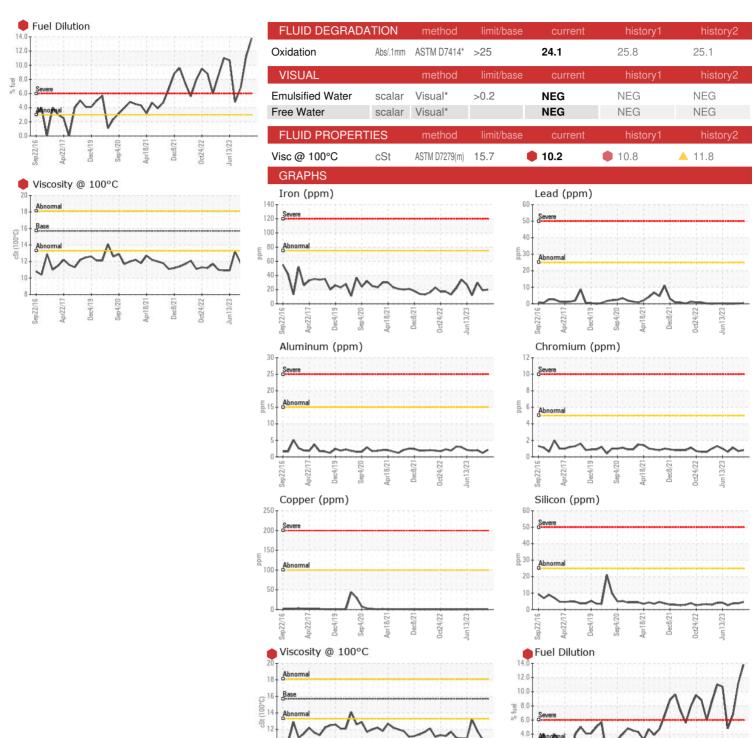
Fluid Condition

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

| SAMPLE INFORM | MATION | method | limit/base | Apr2021 Dec2021 Oct2022 . | history1 | history2 |
|--|-------------------|---|----------------------------------|----------------------------|------------------------------------|-----------------------------------|
| Sample Number | WATION | Client Info | — IIIIII/Dase | WC0878115 | WC0849755 | WC0849936 |
| • | | Client Info | | 11 Dec 2023 | 26 Oct 2023 | |
| Sample Date Machine Age | kms | Client Info | | 105038 | 104869 | 12 Sep 2023 103970 |
| | kms | Client Info | | 0 | 0 | 0 |
| Oil Age | KIIIS | | | N/A | N/A | N/A |
| Oil Changed | | Client Info | | SEVERE | SEVERE | SEVERE |
| Sample Status | | | | | | |
| CONTAMINATIO | N | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| ron | ppm | ASTM D5185(m) | >75 | 20 | 19 | 30 |
| Chromium | ppm | ASTM D5185(m) | >5 | <1 | <1 | 1 |
| Nickel | ppm | ASTM D5185(m) | >4 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >2 | <1 | <1 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >15 | 2 | 1 | 2 |
| _ead | ppm | ASTM D5185(m) | >25 | <1 | <1 | 0 |
| Copper | ppm | ASTM D5185(m) | >100 | <1 | <1 | <1 |
| Γin | ppm | ASTM D5185(m) | >4 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| √anadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185(m) | | 1 | <1 | <1 |
| Barium | ppm | ASTM D5185(m) | | <1 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 53 | 54 | 54 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 839 | 851 | 885 |
| Calcium | ppm | ASTM D5185(m) | | 903 | 919 | 961 |
| Phosphorus | ppm | ASTM D5185(m) | | 838 | 835 | 913 |
| Zinc | ppm | ASTM D5185(m) | | 1018 | 1028 | 1070 |
| Sulfur | ppm | ASTM D5185(m) | | 2150 | 2172 | 2251 |
| Lithium | | | | | -1 | .4 |
| LIUIIUIII | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| | | ASTM D5185(m) method | limit/base | current | history1 | history2 |
| CONTAMINANTS | | | limit/base | | | |
| CONTAMINANTS | 8 | method | | current | history1 | history2 |
| CONTAMINANTS Silicon Sodium | ppm | method ASTM D5185(m) | | current 5 | history1 | history2 |
| CONTAMINANTS Silicon Sodium Potassium | ppm | method ASTM D5185(m) ASTM D5185(m) | >25 | current 5 3 | history1 4 3 | history2 4 4 |
| CONTAMINANTS Silicon Sodium Potassium | ppm ppm ppm | method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | >25 >20 | current 5 3 0 | history1 4 3 <1 | history2 4 4 <1 |
| CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED | ppm ppm ppm | method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593* | >25 >20 >3.0 | 5 3 0 • 13.8 | history1 4 3 <1 11.2 | history2 4 4 <-1 • 6.8 |
| CONTAMINANTS Silicon Sodium Potassium Fuel | ppm ppm ppm | method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593* method | >25 >20 >3.0 limit/base | current 5 3 0 13.8 current | history1 4 3 <1 11.2 history1 | history2 4 4 <1 6.8 history2 |



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number Unique Number

: 02603744

: WC0878115 : 5696829

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recieved : 18 Dec 2023 Diagnosed : 19 Dec 2023

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

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.

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