

OIL ANALYSIS REPORT



NEW FLYER 0904

Component **Diesel Engine**

SAFETY-KLEEN PERFORMAN





DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. Check for low coolant level. 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. Water treatment chemicals present, indicating slow coolant leak. Tests confirm the presence of fuel in the oil. Test for glycol is negative.

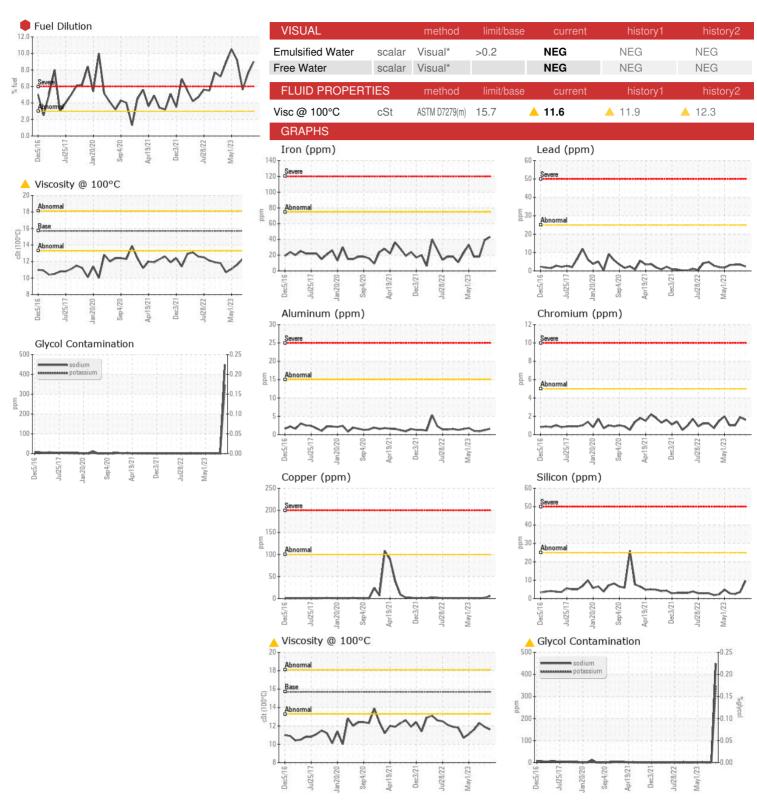
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants. The condition of the oil is acceptable for the time in service (see recommendation).

NCE PLUS XHD-7 15W40 (GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0830091	WC0849695	WC0830113
Sample Date		Client Info		23 Oct 2023	10 Sep 2023	26 Jul 2023
Machine Age	kms	Client Info		252454	241799	0
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	43	39	18
Chromium	ppm	ASTM D5185(m)	>5	2	2	1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>15	2	1	<1
Lead	ppm	ASTM D5185(m)	>25	2	3	3
Copper	ppm	ASTM D5185(m)	>100	6	1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	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)		12	1	<1
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		118	56	56
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		790	906	925
Calcium	ppm	ASTM D5185(m)		900	974	966
Phosphorus	ppm	ASTM D5185(m)		853	926	932
Zinc	ppm	ASTM D5185(m)		988	1087	1106
Sulfur	ppm	ASTM D5185(m)		2270	2276	2317
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	10	4	2
Sodium	ppm	ASTM D5185(m)		<u>448</u>	3	2
Potassium	ppm	ASTM D5185(m)	>20	△ 352	<1	0
Fuel	%	ASTM D7593*	>3.0	• 9	1.6	△ 5.6
Glycol	%	ASTM D7922*		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.7	8.0	0.4
Nitration	Abs/cm	ASTM D7624*	>20	12.5	13.0	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.6	27.8	24.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	25.8	30.9	25.8



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CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number Unique Number

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

: WC0830091 : 02592325

Received Diagnosed : 5669404

: 27 Oct 2023 : 30 Oct 2023

Diagnostician : Kevin Marson

Test Package: MOB 1 (Additional Tests: Glycol, 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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