

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

2008 NOVA 150

Component Rear Diesel Engine Fluid ESSO XD-3 EXTRA 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

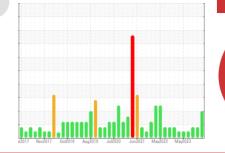
All component wear rates are normal.

Contamination

There is a high 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.

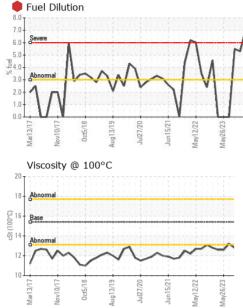


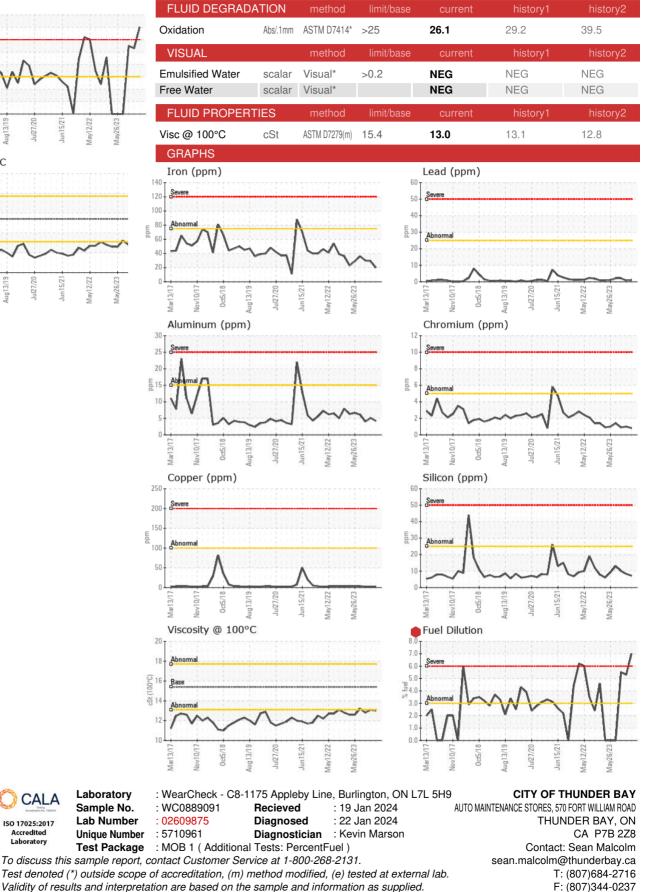


SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0889091	WC0866436	WC0816374
Sample Date		Client Info		10 Jan 2024	23 Nov 2023	25 Sep 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		8723	8976	9406
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	ABNORMAL	ABNORMAL
CONTAMINATION	٧	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
Iron	ppm	ASTM D5185(m)	>75	20	29	30
Chromium	ppm	ASTM D5185(m)	>5	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	4	5	4
Lead	ppm	ASTM D5185(m)	>25	1	<1	2
Copper	ppm	ASTM D5185(m)	>100	2	2	2
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)		72	74	53
Barium	ppm	ASTM D5185(m)		0	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<1	<1	2
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		16	20	30
Calcium	ppm	ASTM D5185(m)	3780	2262	2212	2188
Phosphorus	ppm	ASTM D5185(m)	1370	948	888	877
Zinc	ppm	ASTM D5185(m)	1500	1113	1084	1062
Sulfur	ppm	ASTM D5185(m)	3800	3001	2791	2763
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	8	10
Sodium	ppm	ASTM D5185(m)	>192	4	6	6
Potassium	ppm	ASTM D5185(m)	>20	8	7	9
Fuel	%	ASTM D7593*	>3.0	• 7	▲ 5.3	▲ 5.5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	1.3	1.1	1.1
Nitration	Abs/cm	ASTM D7624*	>20	12.6	12.4	13.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.5	29.2	34.4



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CALA

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