

OIL ANALYSIS REPORT

Sample Rating Trend

2008 NOVA 148

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

DIAGNOSIS

Recommendation

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 moderate 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.

FUEL		

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0889033	WC0889196	WC0866434
Sample Date		Client Info		22 Mar 2024	18 Jan 2024	20 Nov 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		9271	9385	9115
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	ABNORMAL
CONTAMINATION	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
Iron	ppm	ASTM D5185(m)	>100	30	25	23
Chromium	ppm	ASTM D5185(m)	>20	1	2	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	8	6	4
Lead	ppm	ASTM D5185(m)	>40	<1	<1	1
Copper	ppm	ASTM D5185(m)	>330	1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	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)		80	87	79
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		<1	<1	<1
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		19	16	21
Calcium	ppm	ASTM D5185(m)	3780	2317	2244	2230
Phosphorus	ppm	ASTM D5185(m)	1370	970	957	902
Zinc	ppm	ASTM D5185(m)	1500	1179	1165	1107
Sulfur	ppm	ASTM D5185(m)	3800	2769	2949	2746
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	6	5
Sodium	ppm	ASTM D5185(m)	>192	3	3	3
Potassium	ppm	ASTM D5185(m)	>20	8	7	6
Fuel	%	ASTM D7593*	>5	<mark>▲</mark> 7.1	9 .8	▲ 7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1	0.5	0.6
Nitration	Abs/cm	ASTM D7624*	>20	12.4	12.6	12.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.4	27.4	29.8

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method

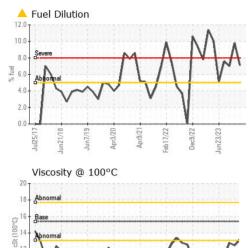
limit/base

current

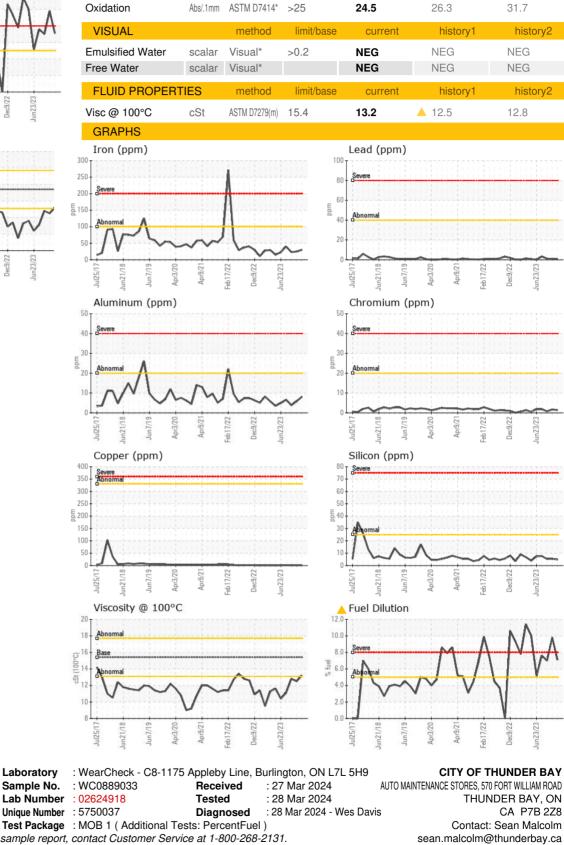
history1

history2

FLUID DEGRADATION



eh17/22



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.

Contact/Location: Sean Malcolm - CITTHU

CALA

ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

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