

Machine Id **2008 NOVA 150** Component **Rear Diesel Engine** Fluid **ESSO XD-3 EXTRA 15W40 (--- GAL)**

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.

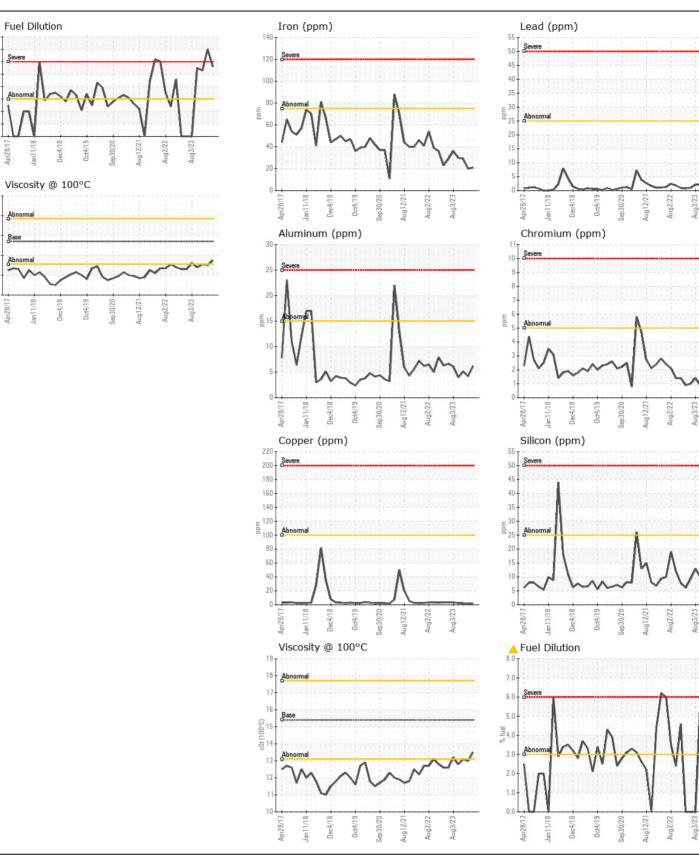
.....

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0889085	WC0889091	WC0866436
	Sample Date		Client Info		06 Mar 2024	10 Jan 2024	23 Nov 2023
	Machine Age	kms	Client Info		0	0	0
	Oil Age	kms	Client Info		9022	8723	8976
	Filter Age	kms	Client Info		9022	8723	8976
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	SEVERE	ABNORMAL
	Iron			. 75	21	20	20
	Iron Chromium	ppm	ASTM D5185(m) ASTM D5185(m)	>75	<1	<1	29 1
	Nickel	ppm	ASTM D5185(m)	>5 >4	<1 <1	<1	<1
	Titanium	ppm			<1 0	0	0
	Silver	ppm	ASTM D5185(m)	>2	-	0	<1
	Aluminum	ppm	ASTM D5185(m)	>2	0 6	4	5
		ppm	ASTM D5185(m)	>15	0 1		
	Lead	ppm	ASTM D5185(m)	>25	2	1	<1
	Copper	ppm	ASTM D5185(m)	>100		2	2
	Tin	ppm	ASTM D5185(m)	>4	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Silicon	ppm	ASTM D5185(m)	>25	6	7	8
	Potassium	ppm	ASTM D5185(m)	>20	8	8	7
	Fuel	%	ASTM D7593*	>3.0	5 .6	▲ 7	5 .3
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>6	1.3	1.3	1.1
	Nitration	Abs/cm	ASTM D7624*	>20	12.3	12.6	12.4
	Sulfation	Abs/.1mm	ASTM D7415*	>30	27.5	28.5	29.2
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)	>192	4	4	6
	Boron	ppm	ASTM D5185(m)		83	72	74
	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)		17	16	20
	Calcium	ppm	ASTM D5185(m)	3780	2328	2262	2212
	Phosphorus	ppm	ASTM D5185(m)	1370	984	948	888
	Zinc	ppm	ASTM D5185(m)	1500	1155	1113	1084
	Sulfur	ppm	ASTM D5185(m)	3800	2986	3001	2791
	Oxidation	Abs/.1mm	ASTM D7414*	>25	24.4	26.1	29.2
	Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.5	13.0	13.1

Contact/Location: Sean Malcolm - CITTHU



CITY OF THUNDER BAY Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : WC0889085 Received : 08 Mar 2024 AUTO MAINTENANCE STORES, 570 FORT WILLIAM ROAD Lab Number : 02620793 Tested THUNDER BAY, ON : 11 Mar 2024 ISO 17025:2017 Accredited : 11 Mar 2024 - Wes Davis CA P7B 2Z8 Unique Number : 5737903 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: PercentFuel) Contact: Sean Malcolm sean.malcolm@thunderbay.ca To discuss this sample report, contact Customer Service at 1-800-268-2131. T: (807)684-2716 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (807)344-0237 Validity of results and interpretation are based on the sample and information as supplied.

8.0

7.0

6.0

5.0

24.0

3.0

2.0

1.0

0

20

1

cSt (100°C)

12