



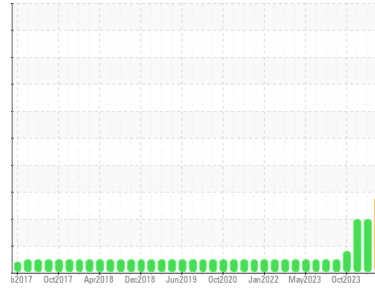
OIL ANALYSIS REPORT

Sample Rating Trend

FUEL



Area
[803]
 Machine Id
NOVA 1602
 Component
Rear Diesel Engine
 Fluid
VALVOLINE 15W40 (26 LTR)



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

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0891754	WC0875067	WC0875095
Sample Date	Client Info		21 Feb 2024	20 Dec 2023	13 Nov 2023
Machine Age	kms	Client Info	564618	547689	546778
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			SEVERE	SEVERE	SEVERE

CONTAMINATION

	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	6	5	26
Chromium	ppm	ASTM D5185(m) >5	0	0	<1
Nickel	ppm	ASTM D5185(m) >4	0	<1	<1
Titanium	ppm	ASTM D5185(m) >2	0	0	0
Silver	ppm	ASTM D5185(m) >2	0	0	0
Aluminum	ppm	ASTM D5185(m) >15	0	1	2
Lead	ppm	ASTM D5185(m) >25	0	0	<1
Copper	ppm	ASTM D5185(m) >100	<1	<1	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) 39	7	12	9
Barium	ppm	ASTM D5185(m) 1	0	0	0
Molybdenum	ppm	ASTM D5185(m) 49	4	6	8
Manganese	ppm	ASTM D5185(m) 1	0	0	0
Magnesium	ppm	ASTM D5185(m) 616	40	42	41
Calcium	ppm	ASTM D5185(m) 1554	1846	1975	1988
Phosphorus	ppm	ASTM D5185(m) 899	693	795	758
Zinc	ppm	ASTM D5185(m) 1069	803	909	905
Sulfur	ppm	ASTM D5185(m) 2624	2349	2939	2727
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

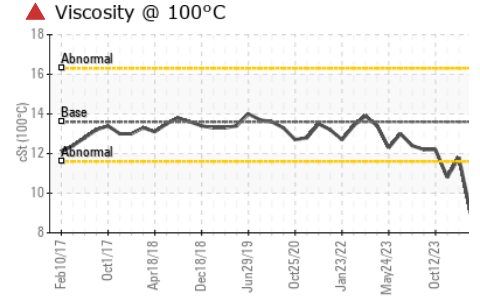
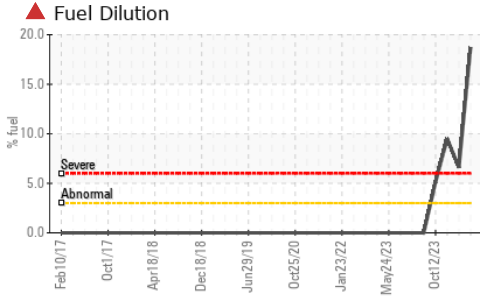
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	2	3	6
Sodium	ppm	ASTM D5185(m)	<1	1	2
Potassium	ppm	ASTM D5185(m) >20	<1	<1	1
Fuel	%	ASTM D7593* >3.0	▲ 18.7	▲ 6.6	▲ 9.5

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	0.1	0	0.3
Nitration	Abs/cm	ASTM D7624* >20	8.7	6.8	10.7
Sulfation	Abs/.1mm	ASTM D7415* >30	17.9	17.1	24.9



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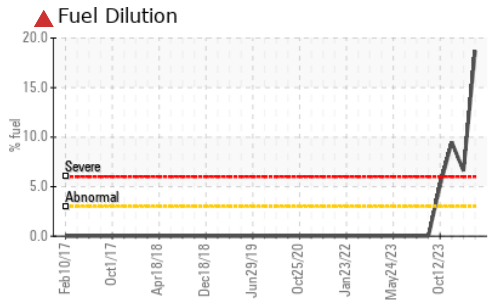
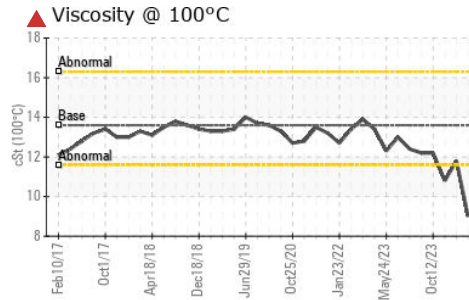
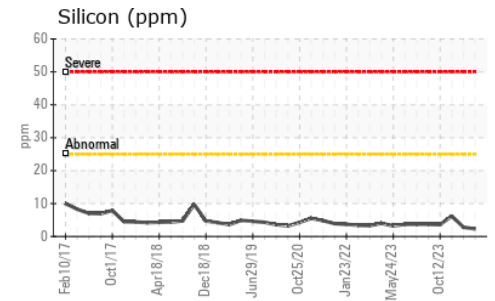
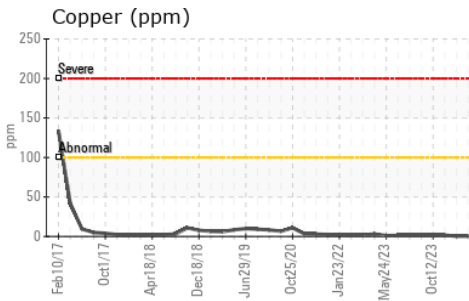
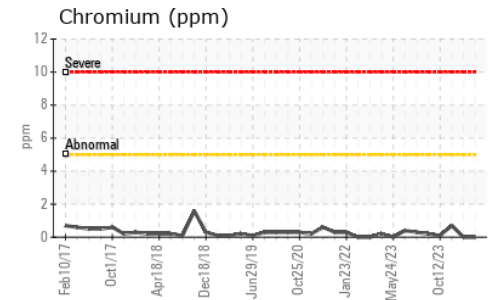
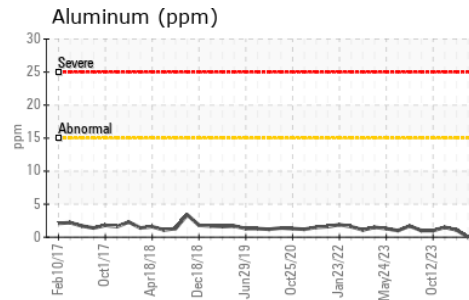
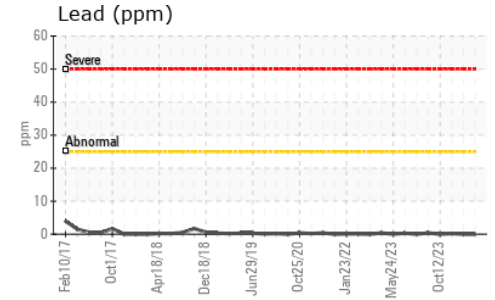
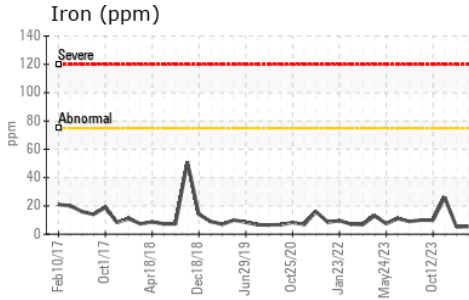


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	13.1	10.9	21.5

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	▲ 9.0	11.8	10.8

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0891754 **Received** : 20 Mar 2024
Lab Number : **02623301** **Tested** : 21 Mar 2024
Unique Number : 5748420 **Diagnosed** : 21 Mar 2024 - 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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