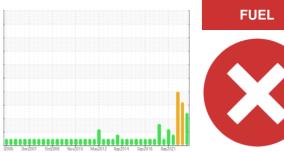


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

NOVA BUS 60020

Rear Diesel Engine

VALVOLINE 15W40 (24 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.

		12006 Dec20	07 Oct2008 Nov2010	May2012 Sep2014 Sep2016	Sep 2021	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0911688	WC0809099	WC0734909
Sample Date		Client Info		03 Apr 2024	07 Jun 2023	22 Nov 2022
Machine Age	kms	Client Info		968865	942843	921427
Oil Age	kms	Client Info		10000	10000	10000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINATIO	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	28	32	43
Chromium	ppm	ASTM D5185(m)	>5	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>15	3	2	2
Lead	ppm	ASTM D5185(m)	>25	3	4	6
Copper	ppm	ASTM D5185(m)	>100	26	<u></u> 104	<u>^</u> 92
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
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	4	1	1
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	49	60	57	54
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	616	894	918	895
Calcium	ppm	ASTM D5185(m)	1554	1124	1044	974
Phosphorus	ppm	ASTM D5185(m)	899	964	1009	975
Zinc	ppm	ASTM D5185(m)	1069	1182	1150	1093
Sulfur	ppm	ASTM D5185(m)	2624	2416	2273	2206
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	4	6
Sodium	ppm	ASTM D5185(m)		4	4	5
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Fuel	%	ASTM D7593*	>3.0	▲ 6.6	1 0	▲ 10.7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.1	0.1	0.1
Soot % Nitration	% Abs/cm	ASTM D7844* ASTM D7624*	>6 >20	0.1 8.0	0.1 7.0	0.1 8.4



OIL ANALYSIS REPORT







Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Lab Number : 02627586 Unique Number : 5760718

: WC0911688

Received : 09 Apr 2024 **Tested** Diagnosed

: 10 Apr 2024 : 10 Apr 2024 - Wes Davis

Test Package : MOB 1 (Additional Tests: PercentFuel) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Contact: Frank Curran fcurran@peterborough.ca 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. Report Id: CITPET [WCAMIS] 02627586 (Generated: 04/10/2024 09:35:34) Rev: 1

Contact/Location: Frank Curran - CITPET

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