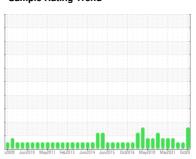


OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



NOVA BUS EQ60047

Component

Rear Diesel Engine

VALVOLINE 15W40 (24 LTR)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter 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 concentration of dirt present in the oil.

Fluid Condition

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

		32009 Jun2010	0 May2011 Feb2013 Jun20	014 Jun 2015 Oct 2016 May 2018 N	far2021 Oct20	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0809127	WC0770726	WC0700629
Sample Date		Client Info		11 Oct 2023	21 Feb 2023	27 Jun 2022
Machine Age	kms	Client Info		912124	889000	852750
Oil Age	kms	Client Info		10000	10000	10000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	29	13	19
Chromium	ppm	ASTM D5185(m)	>5	1	<1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>15	4	3	3
Lead	ppm	ASTM D5185(m)	>25	2	0	<1
Copper	ppm	ASTM D5185(m)	>100	2	<1	2
Tin	ppm	ASTM D5185(m)	>4	<1	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
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	63	2
Barium	ppm	ASTM D5185(m)	1	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	49	16	61	61
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	616	210	558	1010
Calcium	ppm	ASTM D5185(m)	1554	2138	1648	1128
Phosphorus	ppm	ASTM D5185(m)	899	943	1118	1038
Zinc	ppm	ASTM D5185(m)	1069	1126	1189	1255
Sulfur	ppm	ASTM D5185(m)	2624	2897	2785	2594
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<u>^</u> 29	4	8
Sodium	ppm	ASTM D5185(m)		7	2	5
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.7	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	10.1	7.6	4.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.0	22.6	15.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.6	16.9	6.4



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: WC0809127 : 02589136

: 5658202 Test Package : MOB 1

To discuss this sample report, contact Customer Service at 1-800-268-2131.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 16 Oct 2023 Diagnosed : 16 Oct 2023

2.0 1.0 0.0

Diagnostician : Kevin Marson

CITY OF PETERBOROUGH 791 WEBBER AVENUE,, MUNICIPAL OPERATIONS CENTRE

PETERBOROUGH, ON CA K9J 8N3 Contact: Frank Curran

fcurran@peterborough.ca T: (705)742-7777 F: (705)743-3223

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.