

OIL ANALYSIS REPORT

Sample Rating Trend







NOVA BUS EQ60052

Component

Rear Diesel Engine

VALVOLINE 15W40 (24 LTR)

DIAGNOSIS

▲ Recommendation

Check for low coolant level. 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

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. There is no indication of any contamination in the oil.

▲ Fluid Condition

The condition of the oil is acceptable for the time in service (see recommendation).

SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887267	WC0770744	WC0734914
Sample Date		Client Info		12 Dec 2023	27 Mar 2023	20 Oct 2022
Machine Age	kms	Client Info		752964	729587	706262
Oil Age	kms	Client Info		10000	10000	10000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status					ATTENTION	ATTENTION
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	33	34	22
Chromium	ppm	ASTM D5185(m)	>5	2	2	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
	ppm	ASTM D5185(m)	>15	4	3	2
Lead	ppm	ASTM D5185(m)	>25	4	2	2
	ppm	ASTM D5185(m)	>100	2	1	1
` ` `	ppm	ASTM D5185(m)	>4	0	<1	0
	ppm	ASTM D5185(m)		0	0	<1
,	ppm	ASTM D5185(m)		0	0	0
	ppm	ASTM D5185(m)		0	0	0
-	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	39	9	11	4
	ppm	. ,	1	0	0	0
	ppm	ASTM D5185(m)	49	76	76	69
	ppm	ASTM D5185(m)		0	<1	<1
	ppm	ASTM D5185(m)	616	1032	1030	1006
	ppm	ASTM D5185(m)		1141	1303	1102
	ppm	ASTM D5185(m)	899	1024	1093	1085
	ppm	ASTM D5185(m)	1069	1237	1298	1203
	ppm	ASTM D5185(m)	2624	2611	2672	2530
	ppm	ASTM D5185(m)	_0_ /	<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	12	10	9
	ppm	ASTM D5185(m)		406	298	221
	ppm	ASTM D5185(m)	>20	29	39	32
	%	ASTM D7922*		0.0	0.0	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.9	1.2	0.8
	Abs/cm	ASTM D7624*	>20	14.3	15.1	12.7
Cultation		AOTM D7445*	00		04.5	00.4

Sulfation

Abs/.1mm ASTM D7415* >30

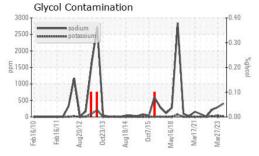
31.5

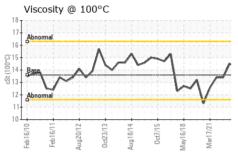
28.3

26.4



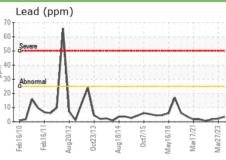
OIL ANALYSIS REPORT

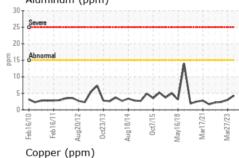


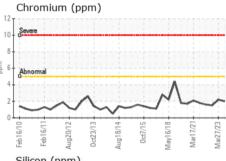


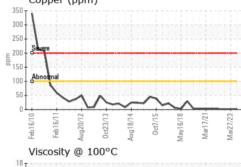
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	27.9	28.1	25.1	
VISUAL		method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	NEG	
FLUID PROPERTIES		method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	14.6	14.3	14.5	
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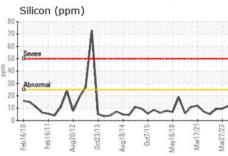
Iron (p	ppm)				11000		
Severe							
Abnormal		Λ.			A		
-	٨				-/\		
11	IV	1	1~	\wedge	N	-	
			V				~
3/10	1712	3/13	141/8	0ct7/15	81/8	12/2	1/23
Feb16/10 Feb16/11	Aug20/12	0ct23/13	Aug18/14	000	May16/18	Mar17/21	Mar27/23
Alumin	ium (p	pm)					
I TOO STO							

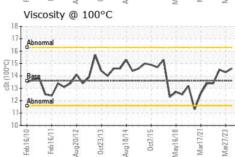


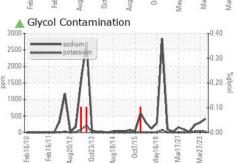














CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number **Unique Number** Test Package : MOB 1 (Additional Tests: Glycol)

: WC0887267 : 02604311 : 5697396

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recieved Diagnosed

: 20 Dec 2023 Diagnostician : Kevin Marson

: 20 Dec 2023

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

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: Frank Curran - CITPET