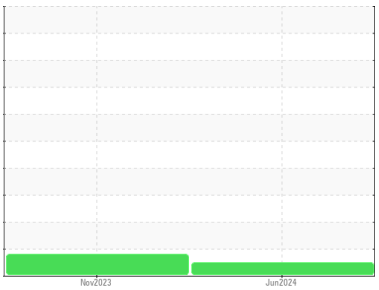
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
[69430]
Machine Id
VOLVO VNR 4623
Component
Diesel Engine
Fluid
PETRO CANADA DURON SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
Metal levels are typical for a new component breaking in.

Contamination
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0948203**	WC0869668	---
Sample Date		Client Info		**28 Jun 2024**	15 Nov 2023	---
Machine Age	kms	Client Info		**30**	280260	---
Oil Age	kms	Client Info		**7**	0	---
Oil Changed		Client Info		**Changed**	Changed	---
Sample Status				**NORMAL**	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	**<1.0**	<1.0	---
Water		WC Method	>0.2	**NEG**	NEG	---
Glycol		WC Method		**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**35**	64	---
Chromium	ppm	ASTM D5185(m)	>20	**<1**	1	---
Nickel	ppm	ASTM D5185(m)	>2	**3**	▲ 3	---
Titanium	ppm	ASTM D5185(m)		**0**	0	---
Silver	ppm	ASTM D5185(m)	>2	**<1**	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	**5**	12	---
Lead	ppm	ASTM D5185(m)	>40	**2**	4	---
Copper	ppm	ASTM D5185(m)	>330	**19**	40	---
Tin	ppm	ASTM D5185(m)	>15	**2**	3	---
Antimony	ppm	ASTM D5185(m)		**0**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

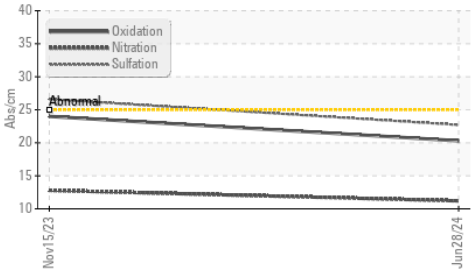
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	**4**	6	---
Barium	ppm	ASTM D5185(m)	1	**<1**	<1	---
Molybdenum	ppm	ASTM D5185(m)	1	**57**	60	---
Manganese	ppm	ASTM D5185(m)	1	**<1**	1	---
Magnesium	ppm	ASTM D5185(m)	10	**839**	783	---
Calcium	ppm	ASTM D5185(m)	2942	**1251**	1354	---
Phosphorus	ppm	ASTM D5185(m)	1102	**818**	849	---
Zinc	ppm	ASTM D5185(m)	1351	**1108**	1074	---
Sulfur	ppm	ASTM D5185(m)	3903	**2110**	1962	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**5**	8	---
Sodium	ppm	ASTM D5185(m)		**3**	4	---
Potassium	ppm	ASTM D5185(m)	>20	**7**	25	---

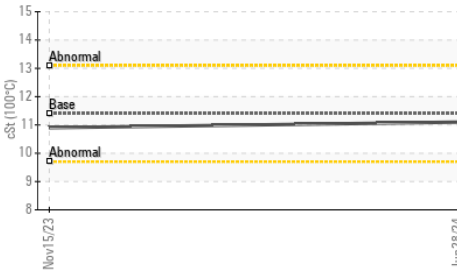
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.7**	0.9	---
Nitration	Abs/cm	ASTM D7624*	>20	**11.2**	12.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.7**	26.6	---

OIL ANALYSIS REPORT

FT-IR (Direct Trend)



Viscosity @ 100°C



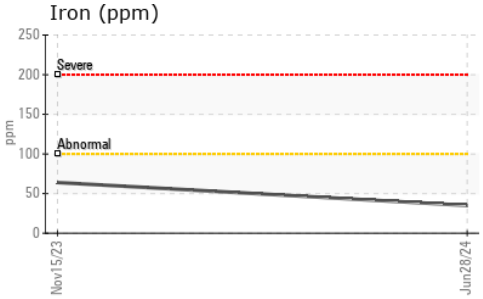
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**20.3**	24.0	---

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

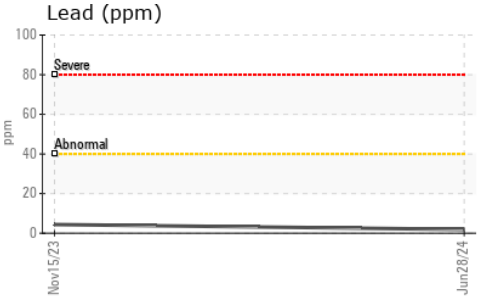
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	**11.1**	10.9	---

GRAPHS

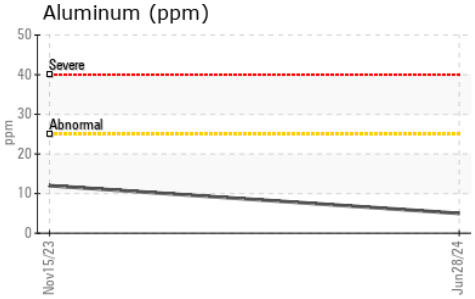
Iron (ppm)



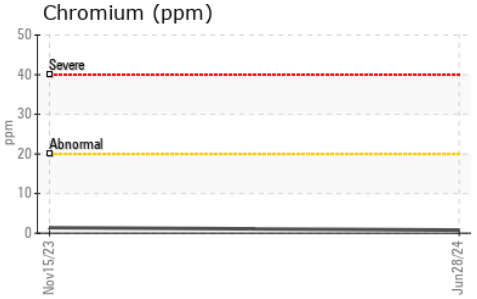
Lead (ppm)



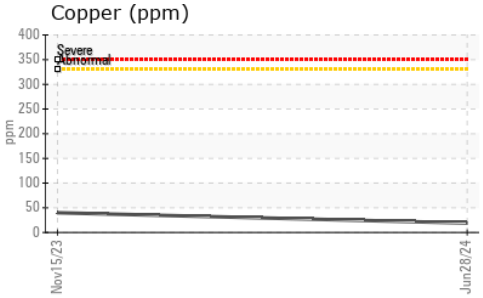
Aluminum (ppm)



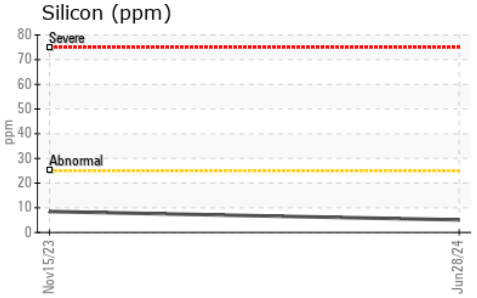
Chromium (ppm)



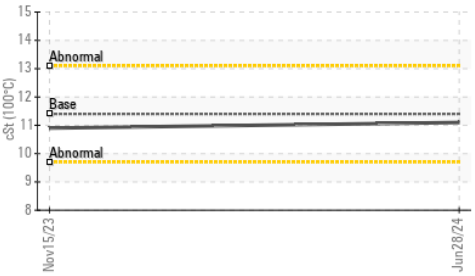
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0948203
Lab Number : 02645220
Unique Number : 5802759
Test Package : MOB 1

Received : 03 Jul 2024
Tested : 03 Jul 2024
Diagnosed : 03 Jul 2024 - Wes Davis

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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