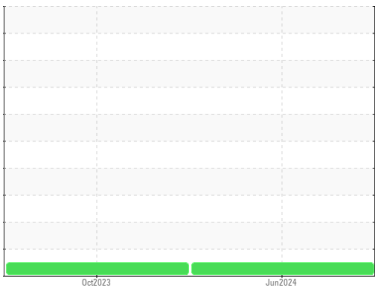
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
[69086]
Machine Id
VOLVO VNL760 4660
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

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		**WC0948233**	WC0853697	---
Sample Date		Client Info		**13 Jun 2024**	07 Oct 2023	---
Machine Age	kms	Client Info		**188123**	94225	---
Oil Age	kms	Client Info		**0**	0	---
Oil Changed		Client Info		**Changed**	Not Changd	---
Sample Status				**NORMAL**	NORMAL	---

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	**59**	54	---
Chromium	ppm	ASTM D5185(m)	>20	**2**	1	---
Nickel	ppm	ASTM D5185(m)	>2	**<1**	0	---
Titanium	ppm	ASTM D5185(m)		**0**	0	---
Silver	ppm	ASTM D5185(m)	>2	**<1**	2	---
Aluminum	ppm	ASTM D5185(m)	>25	**21**	28	---
Lead	ppm	ASTM D5185(m)	>40	**3**	2	---
Copper	ppm	ASTM D5185(m)	>330	**125**	52	---
Tin	ppm	ASTM D5185(m)	>15	**3**	5	---
Antimony	ppm	ASTM D5185(m)		**<1**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

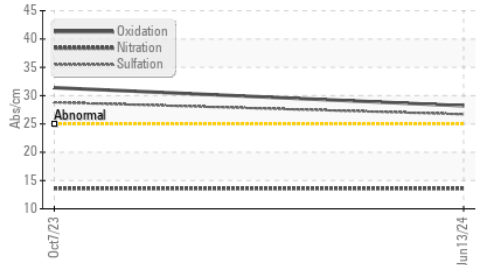
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	**8**	20	---
Barium	ppm	ASTM D5185(m)	0	**<1**	<1	---
Molybdenum	ppm	ASTM D5185(m)	50	**66**	111	---
Manganese	ppm	ASTM D5185(m)	0	**1**	2	---
Magnesium	ppm	ASTM D5185(m)	950	**872**	689	---
Calcium	ppm	ASTM D5185(m)	1050	**1354**	1699	---
Phosphorus	ppm	ASTM D5185(m)	995	**983**	817	---
Zinc	ppm	ASTM D5185(m)	1180	**1151**	1003	---
Sulfur	ppm	ASTM D5185(m)	2600	**2080**	2010	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**11**	34	---
Sodium	ppm	ASTM D5185(m)		**4**	7	---
Potassium	ppm	ASTM D5185(m)	>20	**47**	71	---

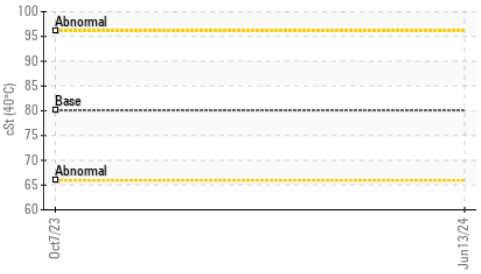
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.5**	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	**13.6**	13.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**26.7**	28.8	---

OIL ANALYSIS REPORT

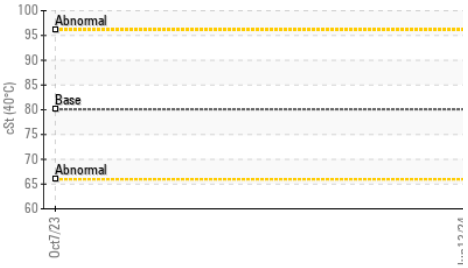
FT-IR (Direct Trend)



Viscosity @ 40°C



Viscosity @ 40°C



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**28.2**	31.4	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**NONE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	**NORML**	---	---
Odor	scalar	Visual*	NORML	**NORML**	NORML	---
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	---
Free Water	scalar	Visual*		**NEG**	NEG	---

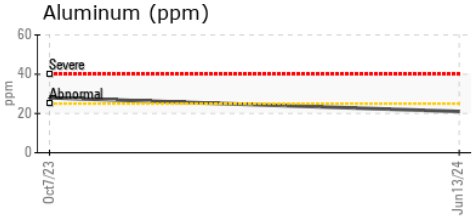
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	**81.0**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	**11.5**	10.9	---
Viscosity Index (VI)	Scale	ASTM D2270*	144	**133**	---	---

GRAPHS

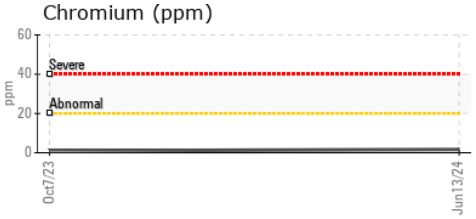
Iron (ppm)

Lead (ppm)

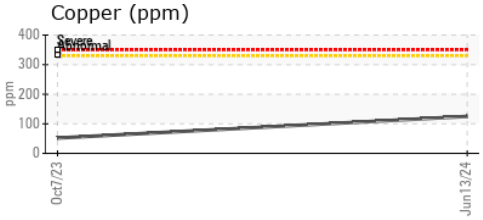
Aluminum (ppm)



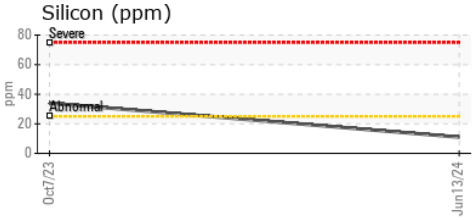
Chromium (ppm)



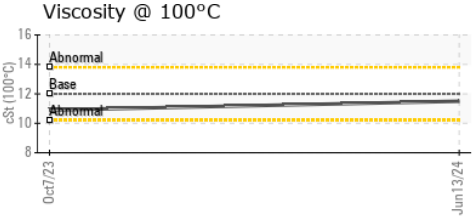
Copper (ppm)



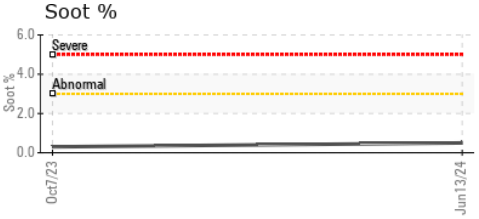
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0948233
Lab Number : 02642298
Unique Number : 5799837
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

Received : 17 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 18 Jun 2024 - Kevin Marson

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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415 EVANS AVENUE
ETOBICOKE, ON
CA M8W 0B3
Contact: Service
etobservice@visiontruckgroup.com
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