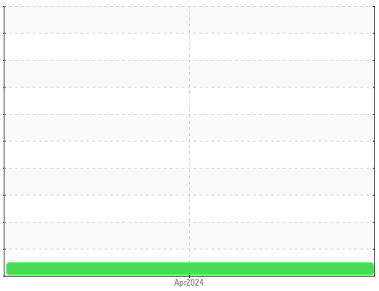
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
[67386]
Machine Id
VOLVO VNL 4713
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
Metal levels are typical for a components first oil change.

Contamination
Fuel content negligible. 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		**WC0895343**	---	---
Sample Date		Client Info		**06 Apr 2024**	---	---
Machine Age	mths	Client Info		**5**	---	---
Oil Age	mths	Client Info		**5**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**NORMAL**	---	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**72**	---	---
Chromium	ppm	ASTM D5185(m)	>20	**2**	---	---
Nickel	ppm	ASTM D5185(m)	>2	**2**	---	---
Titanium	ppm	ASTM D5185(m)		**<1**	---	---
Silver	ppm	ASTM D5185(m)	>2	**2**	---	---
Aluminum	ppm	ASTM D5185(m)	>25	**33**	---	---
Lead	ppm	ASTM D5185(m)	>40	**0**	---	---
Copper	ppm	ASTM D5185(m)	>330	**17**	---	---
Tin	ppm	ASTM D5185(m)	>15	**5**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

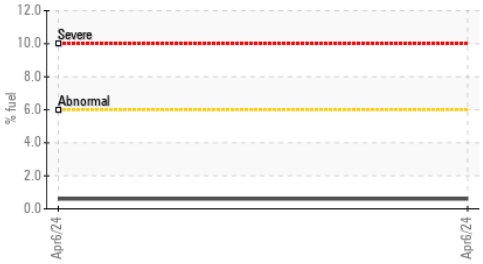
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**33**	---	---
Barium	ppm	ASTM D5185(m)	10	**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)	100	**117**	---	---
Manganese	ppm	ASTM D5185(m)		**4**	---	---
Magnesium	ppm	ASTM D5185(m)	450	**674**	---	---
Calcium	ppm	ASTM D5185(m)	3000	**1573**	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	**679**	---	---
Zinc	ppm	ASTM D5185(m)	1350	**827**	---	---
Sulfur	ppm	ASTM D5185(m)	4250	**1878**	---	---
Lithium	ppm	ASTM D5185(m)		**1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**57**	---	---
Sodium	ppm	ASTM D5185(m)		**5**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**74**	---	---
Fuel	%	ASTM D7593*	>6.0	**0.6**	---	---

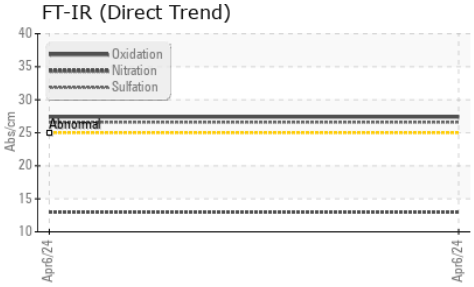
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.6**	---	---
Nitration	Abs/cm	ASTM D7624*	>20	**13.0**	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**26.6**	---	---

OIL ANALYSIS REPORT

Fuel Dilution



FT-IR (Direct Trend)



Viscosity @ 100°C

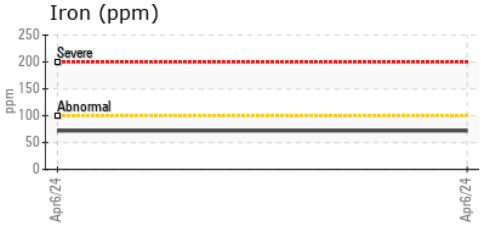
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**27.4**	---	---

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

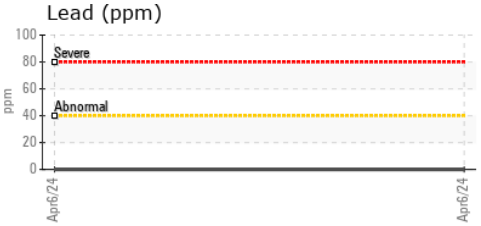
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**9.7**	---	---

GRAPHS

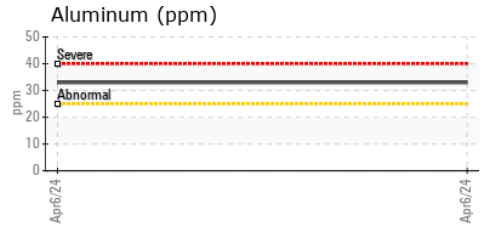
Iron (ppm)



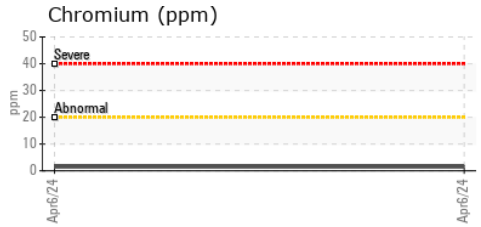
Lead (ppm)



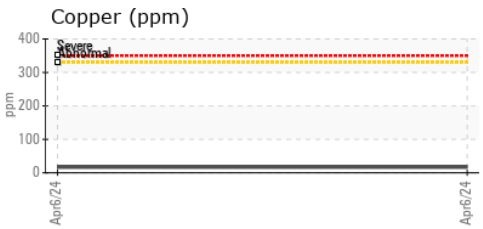
Aluminum (ppm)



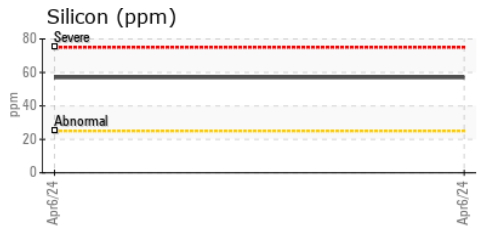
Chromium (ppm)



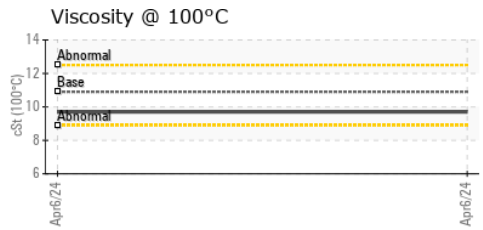
Copper (ppm)



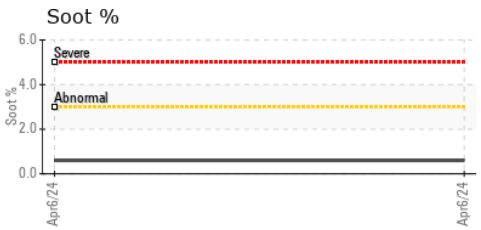
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0895343
Lab Number : 02627595
Unique Number : 5760727
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual)

Received : 09 Apr 2024
Tested : 10 Apr 2024
Diagnosed : 10 Apr 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.

PERFORMANCE EQUIPMENT - VISION TRUCK
415 EVANS AVENUE
ETOBICOKE, ON
CA M8W 0B3
Contact: Service
etobservice@visiontruckgroup.com
T:
F:

Report Id: PER415ETO [WCAMIS] 02627595 (Generated: 04/10/2024 13:08:20) Rev: 1

Contact/Location: Service ? - PER415ETO