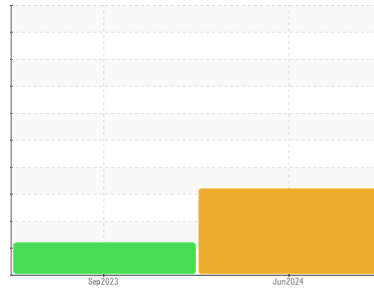




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Area

[68946]

Machine Id

VOLVO VNR660 4657

Component

Diesel Engine

Fluid

PETRO CANADA DURON SAE 10W30 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check the fuel injection system. 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

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 a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0948236	WC0853690	---
Sample Date	Client Info		07 Jun 2024	14 Sep 2023	---
Machine Age	kms	Client Info	189971	91924	---
Oil Age	kms	Client Info	0	91924	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			SEVERE	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	0.0	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	52	119	---
Chromium	ppm	ASTM D5185(m)	>20	1	2	---
Nickel	ppm	ASTM D5185(m)	>2	2	3	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>2	<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	9	33	---
Lead	ppm	ASTM D5185(m)	>40	2	5	---
Copper	ppm	ASTM D5185(m)	>330	54	164	---
Tin	ppm	ASTM D5185(m)	>15	2	8	---
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	8	18	---
Barium	ppm	ASTM D5185(m)	1	<1	<1	---
Molybdenum	ppm	ASTM D5185(m)	1	56	125	---
Manganese	ppm	ASTM D5185(m)	1	1	6	---
Magnesium	ppm	ASTM D5185(m)	10	682	667	---
Calcium	ppm	ASTM D5185(m)	2942	1142	1712	---
Phosphorus	ppm	ASTM D5185(m)	1102	756	823	---
Zinc	ppm	ASTM D5185(m)	1351	960	917	---
Sulfur	ppm	ASTM D5185(m)	3903	1784	2020	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

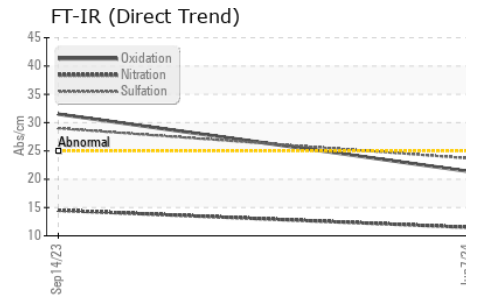
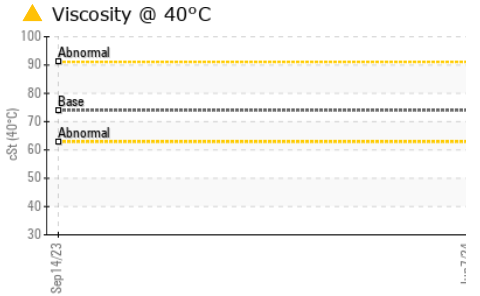
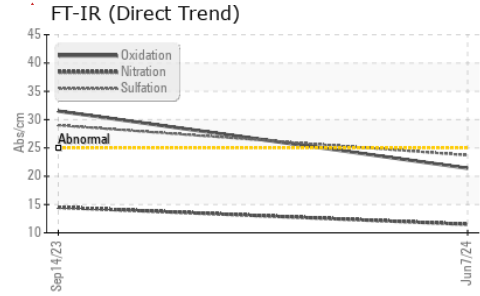
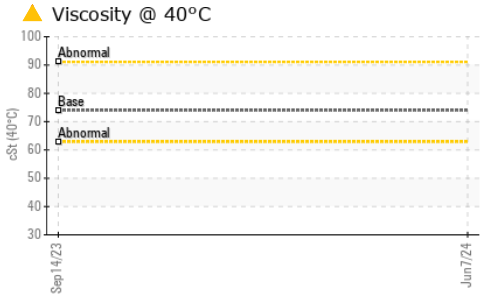
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	17	46	---
Sodium	ppm	ASTM D5185(m)		5	6	---
Potassium	ppm	ASTM D5185(m)	>20	20	91	---
Fuel	%	ASTM D7593*	>6.0	▲ 16.9	1	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.6	0.9	---
Nitration	Abs/cm	ASTM D7624*	>20	11.5	14.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.7	29.0	---



OIL ANALYSIS REPORT

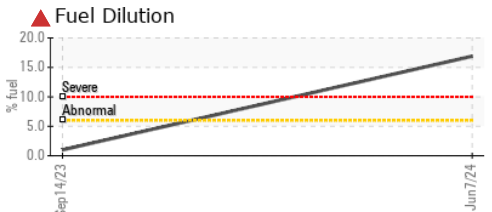
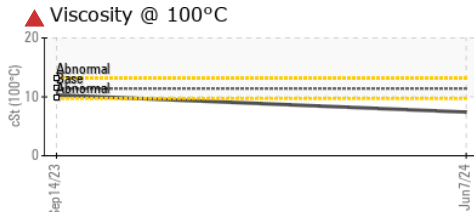
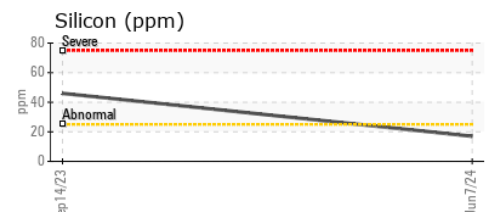
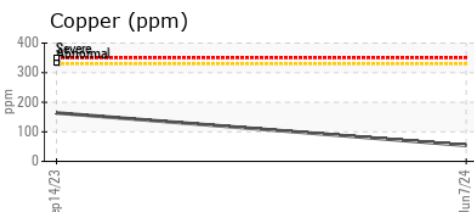
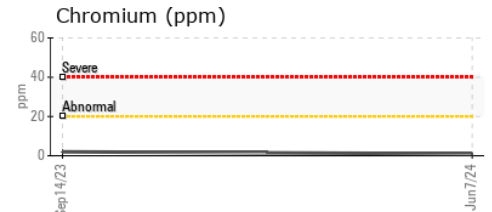
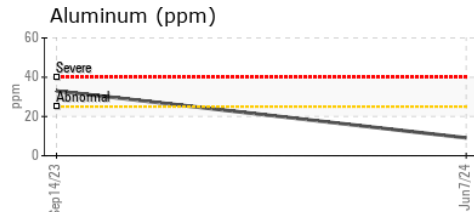
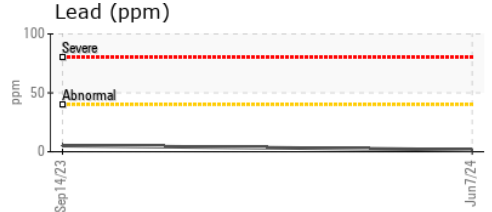
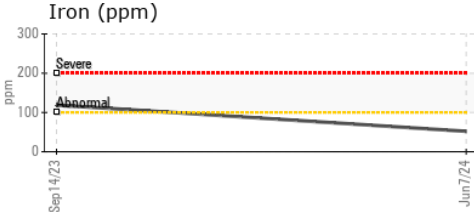


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	21.4	▲ 31.5	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	---	---
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	.2%	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	74.0	▲ 39.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	▲ 7.4	10.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	146	156	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **PERFORMANCE EQUIPMENT - VISION TRUCK**
Sample No. : WC0948236 **Received** : 17 Jun 2024 **415 EVANS AVENUE**
Lab Number : **02642296** **Tested** : 18 Jun 2024 **ETOBICOKE, ON**
Unique Number : 5799835 **Diagnosed** : 18 Jun 2024 - Wes Davis **CA M8W 0B3**
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI, Visual) **Contact: Service**
etobservice@visiontruckgroup.com

To discuss this sample report, contact Customer Service at 1-800-268-2131. T:
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F:
 Validity of results and interpretation are based on the sample and information as supplied.