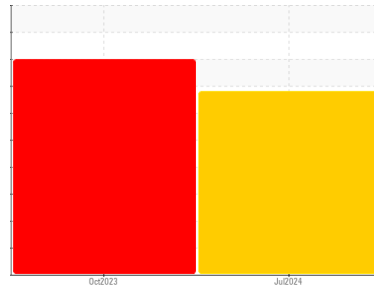




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
[69552]
 Machine Id
VOLVO VNL 4479

Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

▲ Wear

Nickel ppm levels are severe. Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Exhaust valve wear is indicated.

Contamination

Tests indicate that there is no fuel present in the oil. Test for glycol is negative. There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0948215	WC0869682	---
Sample Date	Client Info			05 Jul 2024	26 Oct 2023	---
Machine Age	mths	Client Info		0	56	---
Oil Age	mths	Client Info		9	7	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				SEVERE	SEVERE	---

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

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m)	>100	▲ 117	98	---
Chromium	ppm	ASTM D5185(m)	>20	2	2	---
Nickel	ppm	ASTM D5185(m)	>2	▲ 7	▲ 3	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>2	<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	22	12	---
Lead	ppm	ASTM D5185(m)	>40	2	2	---
Copper	ppm	ASTM D5185(m)	>330	13	10	---
Tin	ppm	ASTM D5185(m)	>15	1	1	---
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	---

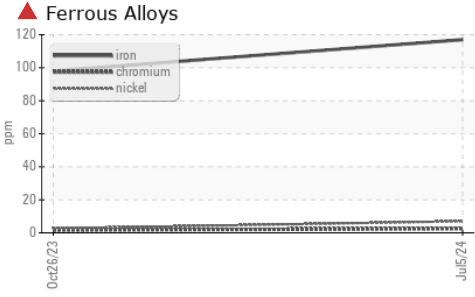
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	1	11	---
Barium	ppm	ASTM D5185(m)	0	<1	<1	---
Molybdenum	ppm	ASTM D5185(m)	50	62	53	---
Manganese	ppm	ASTM D5185(m)	0	2	1	---
Magnesium	ppm	ASTM D5185(m)	950	993	750	---
Calcium	ppm	ASTM D5185(m)	1050	1119	979	---
Phosphorus	ppm	ASTM D5185(m)	995	1025	866	---
Zinc	ppm	ASTM D5185(m)	1180	1240	1003	---
Sulfur	ppm	ASTM D5185(m)	2600	2043	2605	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	9	---
Sodium	ppm	ASTM D5185(m)		10	● 52	---
Potassium	ppm	ASTM D5185(m)	>20	21	▲ 30	---
Fuel	%	ASTM D7593*	>6.0	0.0	▲ 13.6	---
Glycol	%	ASTM D7922*		0.0	▲ 0.054	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.4	1	---
Nitration	Abs/cm	ASTM D7624*	>20	13.4	12.9	---
Sulfation	Abs./1mm	ASTM D7415*	>30	27.2	29.1	---



OIL ANALYSIS REPORT

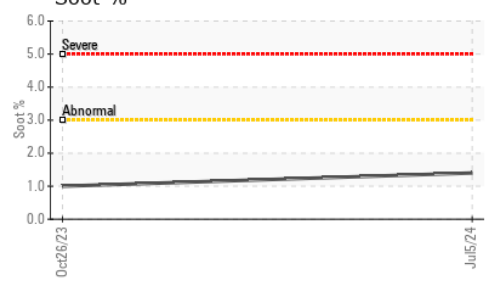
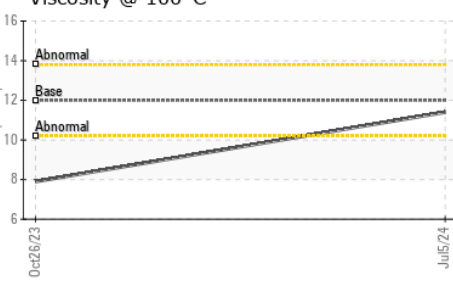
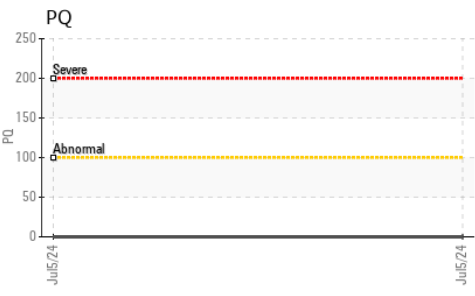
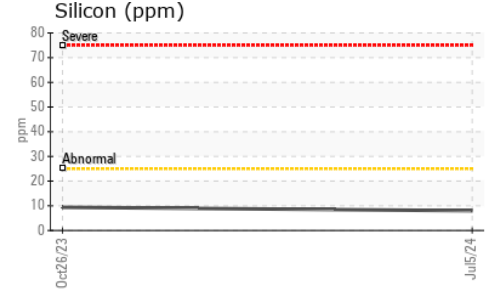
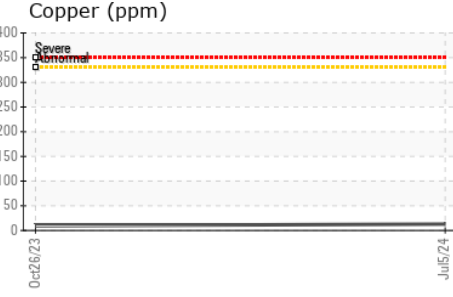
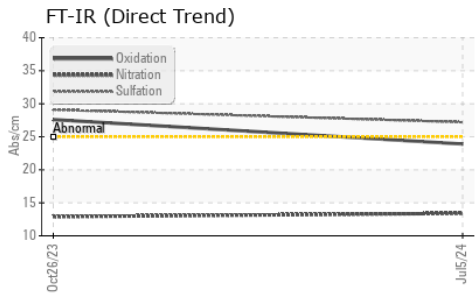
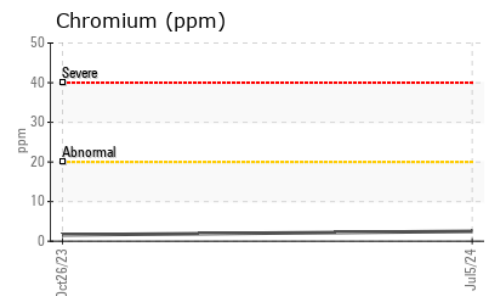
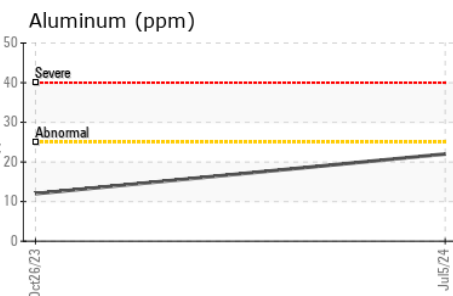
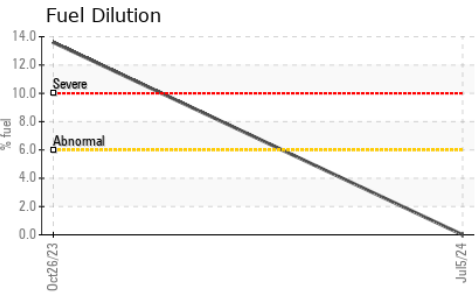
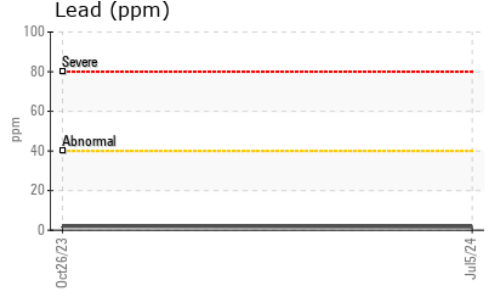
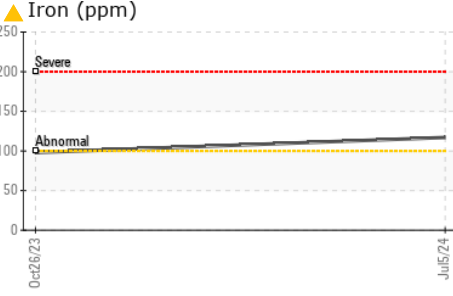
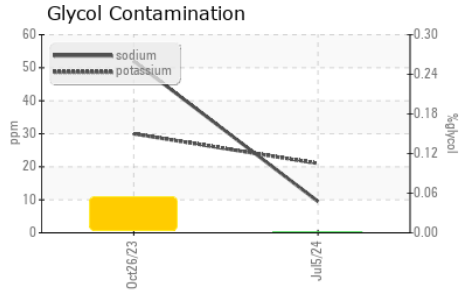


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	23.9	27.6	---

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)	12.00	11.4	▲ 7.9	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0948215 **Received** : 09 Jul 2024
Lab Number : **02646633** **Tested** : 10 Jul 2024
Unique Number : 5812185 **Diagnosed** : 10 Jul 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: PercentFuel, PQ)

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

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.