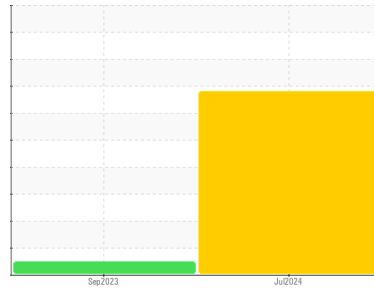




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area

[69550]

Machine Id

VOLVO VNL740 4482

Component

Diesel Engine

Fluid

PETRO CANADA DURON SAE 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. We have assumed that this component is not breaking in (age of component not reported).

Contamination

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		WC0948219	WC0853670	---
Sample Date	Client Info		06 Jul 2024	15 Sep 2023	---
Machine Age	mths	Client Info	0	54	---
Oil Age	mths	Client Info	10	13	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			SEVERE	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
PQ	ASTM D8184*		0	0	---
Iron	ppm	ASTM D5185(m) >100	▲ 117	118	---
Chromium	ppm	ASTM D5185(m) >20	2	2	---
Nickel	ppm	ASTM D5185(m) >2	▲ 11	4	---
Titanium	ppm	ASTM D5185(m)	0	<1	---
Silver	ppm	ASTM D5185(m) >2	<1	<1	---
Aluminum	ppm	ASTM D5185(m) >25	11	8	---
Lead	ppm	ASTM D5185(m) >40	2	4	---
Copper	ppm	ASTM D5185(m) >330	16	13	---
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) 1	4	2	---
Barium	ppm	ASTM D5185(m) 1	<1	<1	---
Molybdenum	ppm	ASTM D5185(m) 1	58	62	---
Manganese	ppm	ASTM D5185(m) 1	2	2	---
Magnesium	ppm	ASTM D5185(m) 10	873	915	---
Calcium	ppm	ASTM D5185(m) 2942	1200	1273	---
Phosphorus	ppm	ASTM D5185(m) 1102	932	1053	---
Zinc	ppm	ASTM D5185(m) 1351	1134	1217	---
Sulfur	ppm	ASTM D5185(m) 3903	1953	2061	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

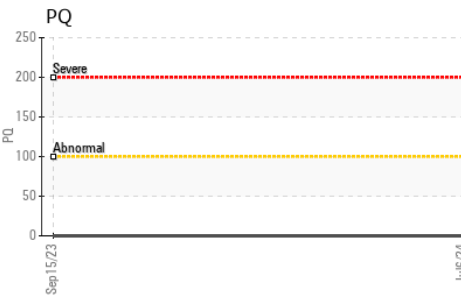
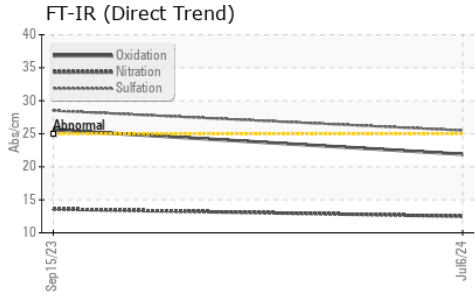
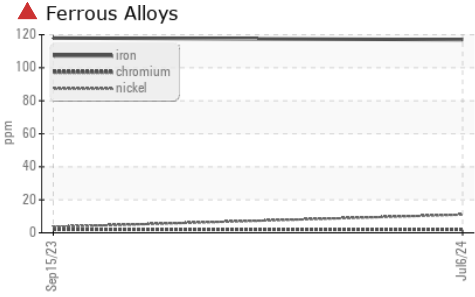
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	10	9	---
Sodium	ppm	ASTM D5185(m)	3	4	---
Potassium	ppm	ASTM D5185(m) >20	3	4	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	1.5	1.5	---
Nitration	Abs/cm	ASTM D7624* >20	12.5	13.6	---
Sulfation	Abs/.1mm	ASTM D7415* >30	25.5	28.5	---



OIL ANALYSIS REPORT

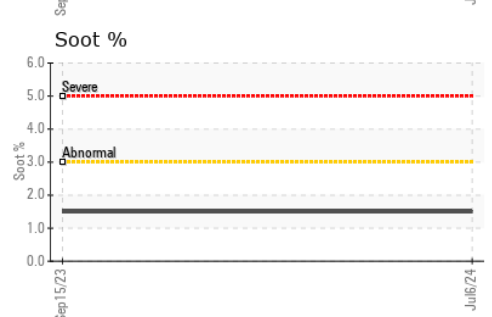
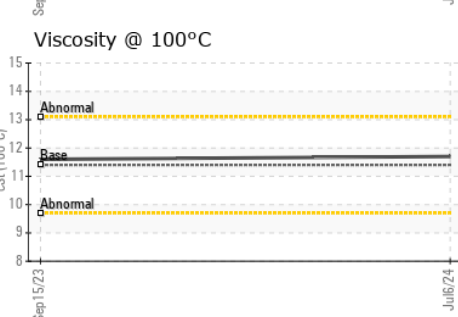
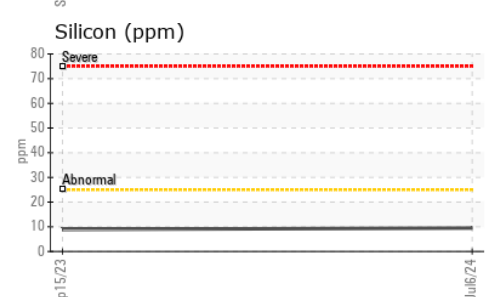
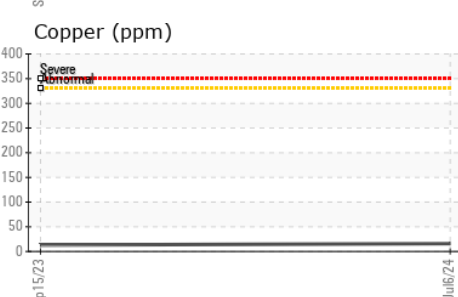
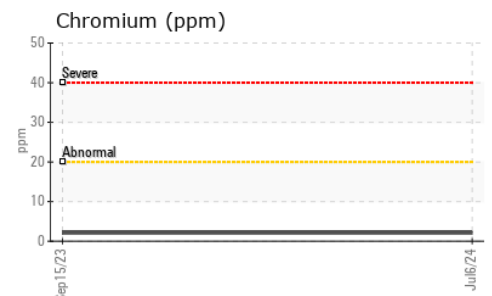
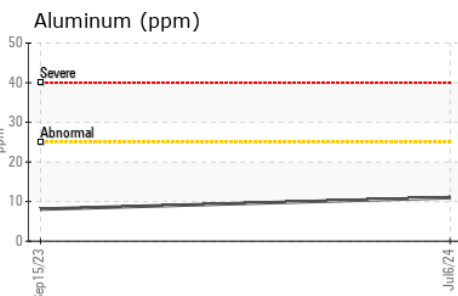
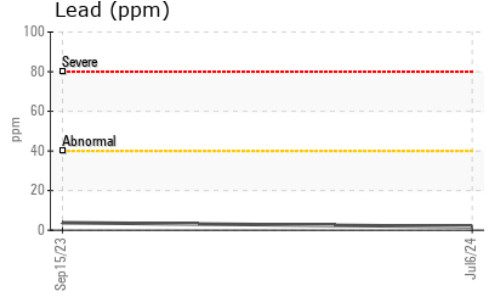
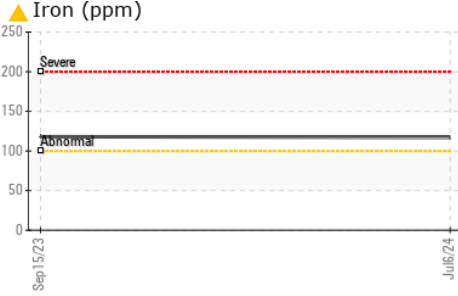


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	21.9	25.6	---

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)	11.4	11.7	11.6	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **PERFORMANCE EQUIPMENT - VISION TRUCK**
Sample No. : WC0948219 **Received** : 09 Jul 2024 **415 EVANS AVENUE**
Lab Number : 02646634 **Tested** : 09 Jul 2024 **ETOBICOKE, ON**
Unique Number : 5812186 **Diagnosed** : 09 Jul 2024 - Kevin Marson **CA M8W 0B3**
Test Package : MOB 1 (Additional Tests: PQ) **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.