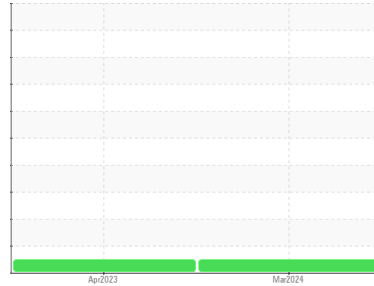




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[66897]
 Machine Id
VOLVO 4646
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SAE 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		WC0909036	WC0816603	---
Sample Date	Client Info		20 Mar 2024	10 Apr 2023	---
Machine Age	kms	Client Info	191585	97823	---
Oil Age	kms	Client Info	0	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<1.0	0.7	---
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	62	118	---
Chromium	ppm	ASTM D5185(m)	>20	1	2	---
Nickel	ppm	ASTM D5185(m)	>2	5	6	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	9	27	---
Lead	ppm	ASTM D5185(m)	>40	3	13	---
Copper	ppm	ASTM D5185(m)	>330	58	226	---
Tin	ppm	ASTM D5185(m)	>15	2	8	---
Antimony	ppm	ASTM D5185(m)		0	0	---
Vanadium	ppm	ASTM D5185(m)		0	<1	---
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	12	22	---
Barium	ppm	ASTM D5185(m)	1	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	1	59	114	---
Manganese	ppm	ASTM D5185(m)	1	<1	6	---
Magnesium	ppm	ASTM D5185(m)	10	787	625	---
Calcium	ppm	ASTM D5185(m)	2942	1370	1732	---
Phosphorus	ppm	ASTM D5185(m)	1102	840	792	---
Zinc	ppm	ASTM D5185(m)	1351	1051	849	---
Sulfur	ppm	ASTM D5185(m)	3903	1808	1887	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

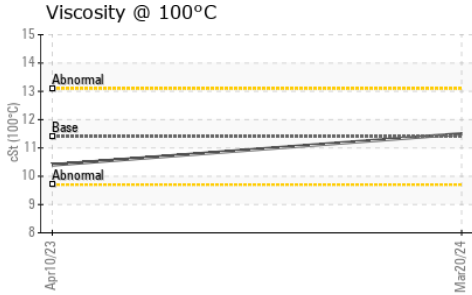
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	9	33	---
Sodium	ppm	ASTM D5185(m)		3	5	---
Potassium	ppm	ASTM D5185(m)	>20	18	66	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.6	0.7	---
Nitration	Abs/cm	ASTM D7624*	>20	12.1	13.8	---
Sulfation	Abs./1mm	ASTM D7415*	>30	25.4	27.0	---



OIL ANALYSIS REPORT

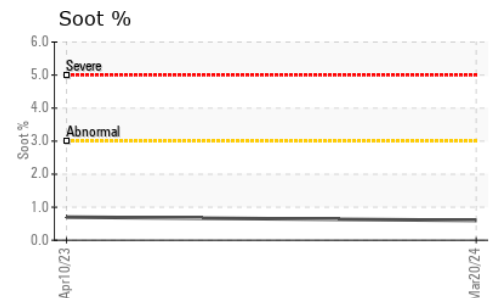
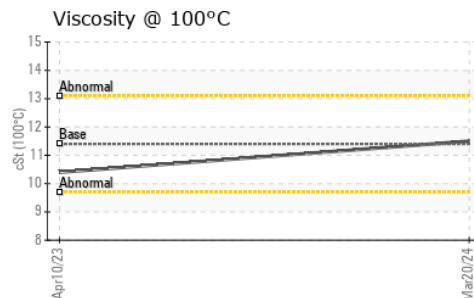
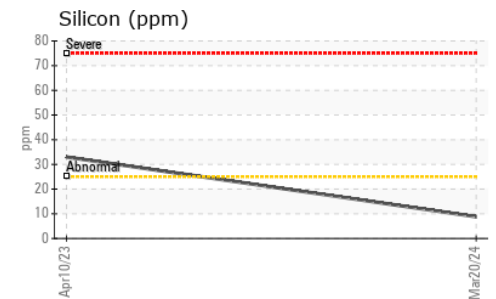
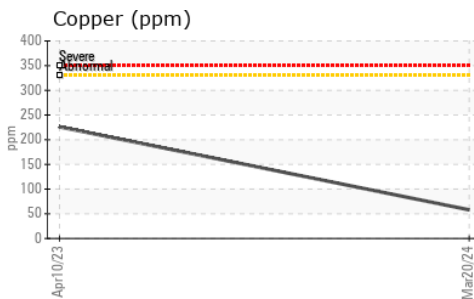
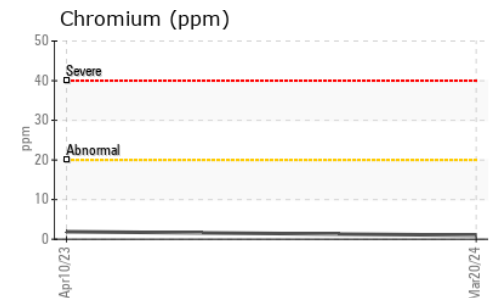
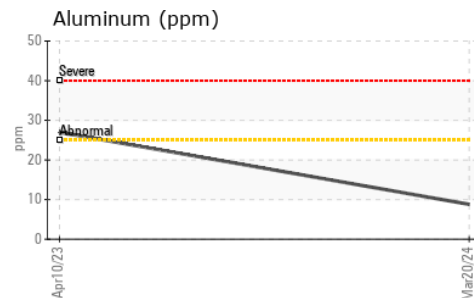
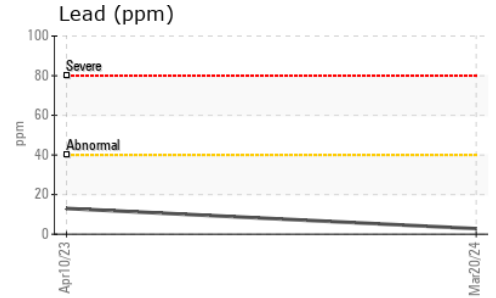
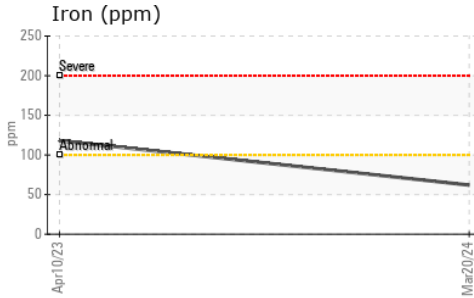


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	24.7	29.3	---

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	11.5	10.4	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **PERFORMANCE EQUIPMENT - VISION TRUCK**
Sample No. : WC0909036 **Received** : 25 Mar 2024 **415 EVANS AVENUE**
Lab Number : **02624121** **Tested** : 25 Mar 2024 **ETOBICOKE, ON**
Unique Number : 5749240 **Diagnosed** : 25 Mar 2024 - Wes Davis **CA M8W 0B3**
Test Package : MOB 1 **Contact: Service**

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