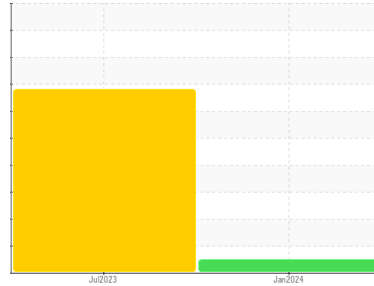




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[64952]
 Machine Id
VOLVO VNR660 4613

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		WC0895321	WC0831166	---
Sample Date	Client Info		05 Jan 2024	21 Jul 2023	---
Machine Age	kms	Client Info	306142	32	---
Oil Age	kms	Client Info	95444	9	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	SEVERE	---

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	
Iron	ppm	ASTM D5185(m)	>100	76	▲ 131	---
Chromium	ppm	ASTM D5185(m)	>20	1	2	---
Nickel	ppm	ASTM D5185(m)	>2	2	◆ 7	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>2	<1	1	---
Aluminum	ppm	ASTM D5185(m)	>25	6	10	---
Lead	ppm	ASTM D5185(m)	>40	3	4	---
Copper	ppm	ASTM D5185(m)	>330	9	22	---
Tin	ppm	ASTM D5185(m)	>15	2	4	---
Antimony	ppm	ASTM D5185(m)		0	<1	---
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	3	6	---
Barium	ppm	ASTM D5185(m)	1	0	0	---
Molybdenum	ppm	ASTM D5185(m)	1	60	65	---
Manganese	ppm	ASTM D5185(m)	1	<1	3	---
Magnesium	ppm	ASTM D5185(m)	10	899	845	---
Calcium	ppm	ASTM D5185(m)	2942	1125	1266	---
Phosphorus	ppm	ASTM D5185(m)	1102	965	975	---
Zinc	ppm	ASTM D5185(m)	1351	1163	1141	---
Sulfur	ppm	ASTM D5185(m)	3903	2190	2113	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

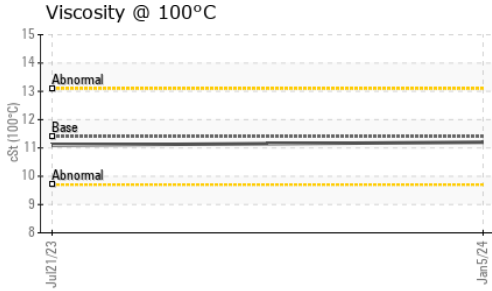
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	9	12	---
Sodium	ppm	ASTM D5185(m)		3	4	---
Potassium	ppm	ASTM D5185(m)	>20	8	22	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.7	0.8	---
Nitration	Abs/cm	ASTM D7624*	>20	13.7	13.8	---
Sulfation	Abs./1mm	ASTM D7415*	>30	26.5	27.4	---



OIL ANALYSIS REPORT



FLUID DEGRADATION

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

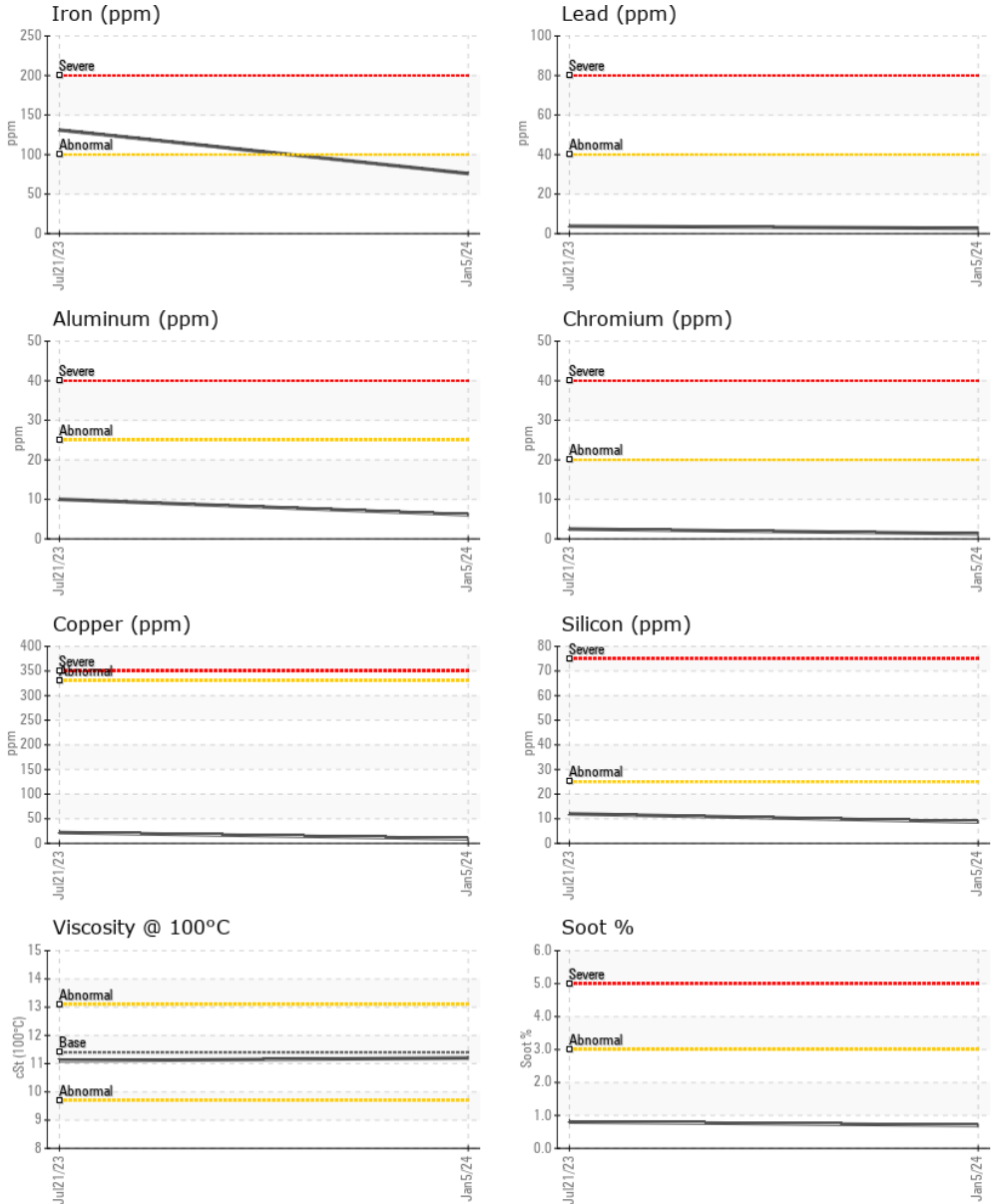
VISUAL

method	limit/base	current	history1	history2
scalar	Visual*	>0.2	NEG	---
scalar	Visual*	NEG	NEG	---

FLUID PROPERTIES

method	limit/base	current	history1	history2
cSt	ASTM D7279(m)	11.4	11.1	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PERFORMANCE EQUIPMENT - VISION TRUCK
Sample No. : WC0895321 **Recieved** : 10 Jan 2024 415 EVANS AVENUE
Lab Number : 02607701 **Diagnosed** : 10 Jan 2024 ETOBICOKE, ON
Unique Number : 5708787 **Diagnostician** : Kevin Marson 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: