



# OIL ANALYSIS REPORT

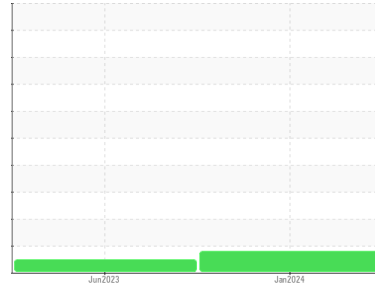
Sample Rating Trend

**WEAR**



Area  
**[64977]**  
Machine Id  
**VOLVO VNL 4608**

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 abnormal. Exhaust valve wear is indicated.

### 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		<b>WC0895326</b>	WC0816589	---
Sample Date	Client Info		<b>06 Jan 2024</b>	09 Jun 2023	---
Machine Age	kms	Client Info	<b>439017</b>	322147	---
Oil Age	kms	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	N/A	---
Sample Status			<b>ABNORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	<b>79</b>	64	---
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	---
Nickel	ppm	ASTM D5185(m)	>2	<b>▲ 4</b>	2	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>9</b>	5	---
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	3	---
Copper	ppm	ASTM D5185(m)	>330	<b>13</b>	19	---
Tin	ppm	ASTM D5185(m)	>15	<b>2</b>	3	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	1	<b>2</b>	7	---
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	1	<b>59</b>	64	---
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185(m)	10	<b>864</b>	878	---
Calcium	ppm	ASTM D5185(m)	2942	<b>1208</b>	1308	---
Phosphorus	ppm	ASTM D5185(m)	1102	<b>899</b>	1018	---
Zinc	ppm	ASTM D5185(m)	1351	<b>1141</b>	1187	---
Sulfur	ppm	ASTM D5185(m)	3903	<b>2193</b>	2108	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>9</b>	9	---
Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	---
Potassium	ppm	ASTM D5185(m)	>20	<b>8</b>	6	---
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	---

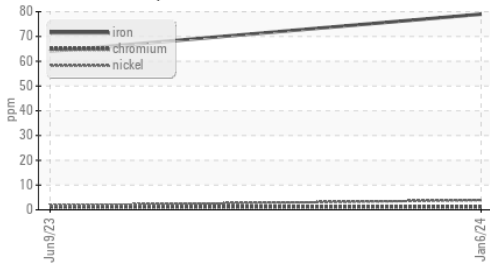
## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.9</b>	0.9	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.7</b>	13.1	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>25.1</b>	26.2	---



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### ▲ Ferrous Alloys



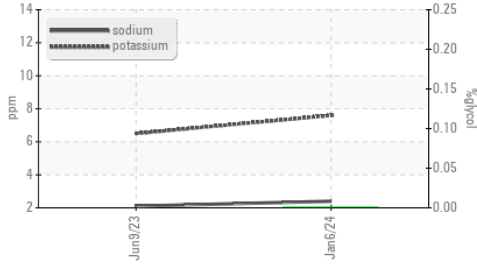
FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>21.0</b>	23.3	---

VISUAL	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---
Free Water	scalar	Visual*		<b>NEG</b>	NEG	---

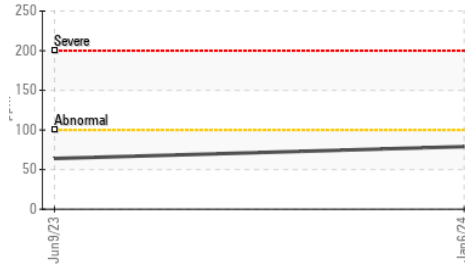
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	<b>11.3</b>	11.3	---

### GRAPHS

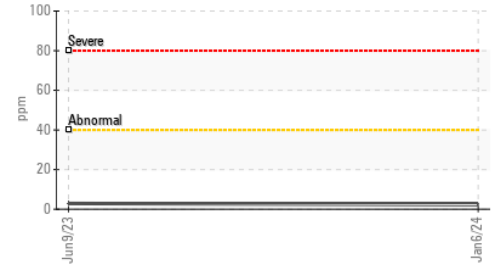
#### Glycol Contamination



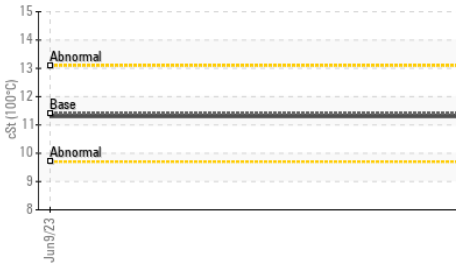
#### Iron (ppm)



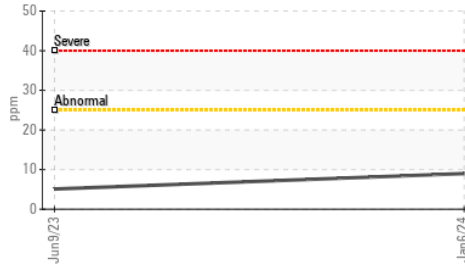
#### Lead (ppm)



#### Viscosity @ 100°C



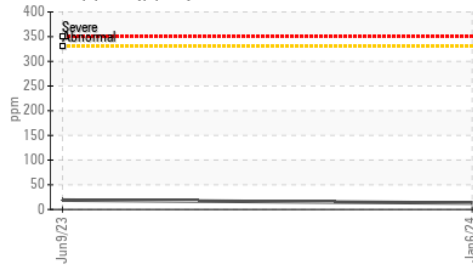
#### Aluminum (ppm)



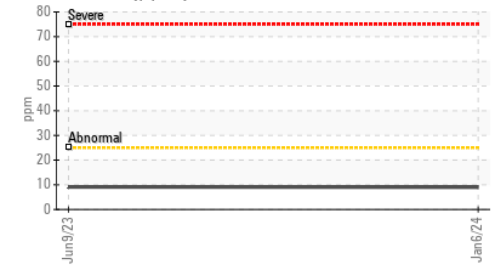
#### Chromium (ppm)



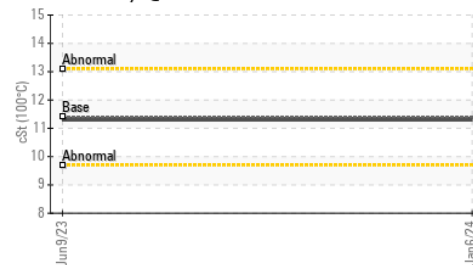
#### Copper (ppm)



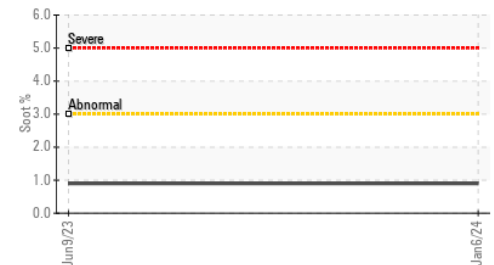
#### Silicon (ppm)



#### Viscosity @ 100°C



#### Soot %



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PERFORMANCE EQUIPMENT - VISION TRUCK  
**Sample No.** : WC0895326 **Received** : 10 Jan 2024 415 EVANS AVENUE  
**Lab Number** : 02607703 **Diagnosed** : 11 Jan 2024 ETOBICOKE, ON  
**Unique Number** : 5708789 **Diagnostician** : Kevin Marson CA M8W 0B3  
**Test Package** : MOB 1 ( Additional Tests: Glycol ) Contact: Service

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.

etobservice@visiontruckgroup.com

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F: