



# OIL ANALYSIS REPORT

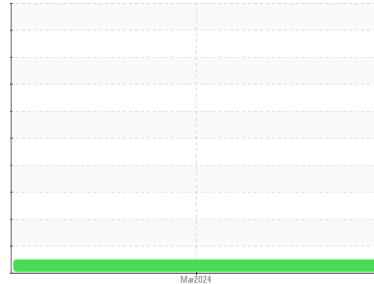
Sample Rating Trend

**NORMAL**



Area  
**[66742]**  
Machine Id  
**VOLVO VNL 4515**

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



## DIAGNOSIS

### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0909028</b>	---	---
Sample Date	Client Info			<b>14 Mar 2024</b>	---	---
Machine Age	kms	Client Info		<b>485627</b>	---	---
Oil Age	kms	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>68</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>7</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>14</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

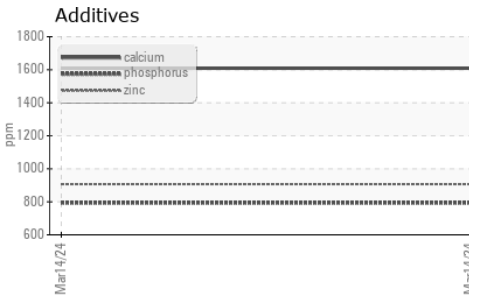
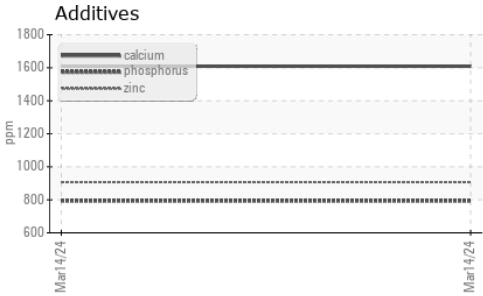
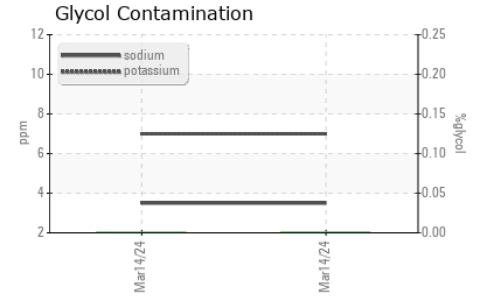
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	<b>20</b>	---	---
Barium	ppm	ASTM D5185(m)	1	<b>1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	1	<b>47</b>	---	---
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)	10	<b>573</b>	---	---
Calcium	ppm	ASTM D5185(m)	2942	<b>1609</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	1102	<b>794</b>	---	---
Zinc	ppm	ASTM D5185(m)	1351	<b>907</b>	---	---
Sulfur	ppm	ASTM D5185(m)	3903	<b>2118</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>23</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>4</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>7</b>	---	---
Glycol	%	ASTM D7922*		<b>0.0</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0.6</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.3</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.4</b>	---	---



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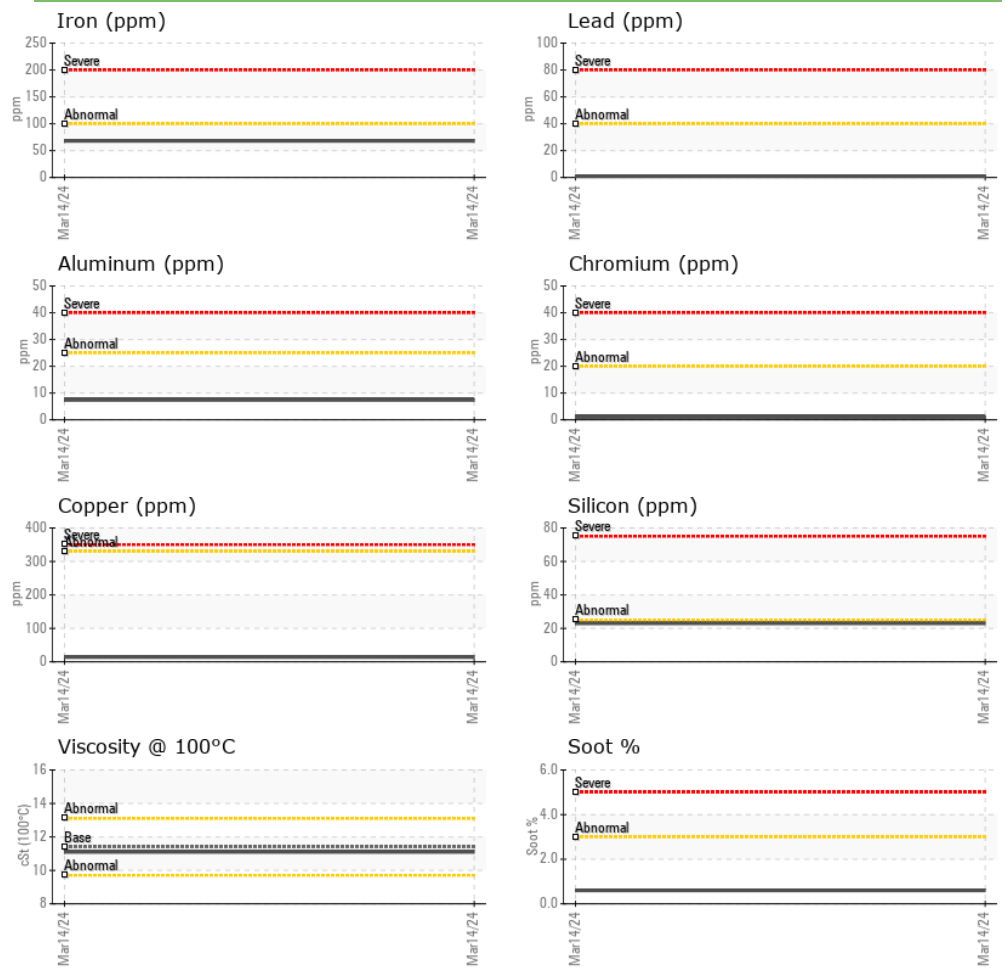


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>20.8</b>	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	<b>11.1</b>	---	---

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **PERFORMANCE EQUIPMENT - VISION TRUCK**  
**Sample No.** : WC0909028 **Received** : 18 Mar 2024 **415 EVANS AVENUE**  
**Lab Number** : 02622549 **Tested** : 18 Mar 2024 **ETOBICOKE, ON**  
**Unique Number** : 5747668 **Diagnosed** : 19 Mar 2024 - Kevin Marson **CA M8W 0B3**  
**Test Package** : MOB 1 ( Additional Tests: Glycol, Visual ) **Contact: Service**  
 etobservice@visiontruckgroup.com  
 To discuss this sample report, contact Customer Service at 1-800-268-2131. **T:**  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. **F:**  
 Validity of results and interpretation are based on the sample and information as supplied.