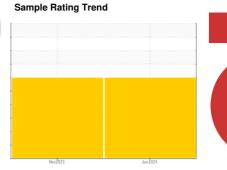


# **OIL ANALYSIS REPORT**

[69415] **VOLVO VNR660 4618** 

**Diesel Engine** 

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.

Nickel ppm levels are severe. Exhaust valve wear is indicated.

### 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. Tests indicate that there is no fuel present in the oil. 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.

AL)			Nov2023	Jun2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0948221	WC0869670	
Sample Date		Client Info		28 Jun 2024	11 Nov 2023	
Machine Age	kms	Client Info		376611	278466	
Oil Age	kms	Client Info		0	128691	
Oil Changed		Client Info		Changed	Changed	
Sample Status				SEVERE	SEVERE	
CONTAMINATIO	N	method	limit/base	current	history1	history2
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	67	107	
Chromium	ppm	ASTM D5185(m)	>20	2	3	
Nickel	ppm	ASTM D5185(m)	>2	<b>1</b> 0	<b>2</b> 2	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>2	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>25	8	15	
Lead	ppm	ASTM D5185(m)	>40	3	5	
Copper	ppm	ASTM D5185(m)	>330	19	36	
Tin	ppm	ASTM D5185(m)	>15	2	5	
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	7	
Barium	ppm	ASTM D5185(m)	1	<1	<1	
Molybdenum	ppm	ASTM D5185(m)	1	60	62	
Manganese	ppm	ASTM D5185(m)	1	1	3	
Magnesium	ppm	ASTM D5185(m)	10	888	840	
Calcium	ppm	ASTM D5185(m)	2942	1296	1380	
Phosphorus	ppm	ASTM D5185(m)	1102	887	912	
Zinc	ppm	ASTM D5185(m)	1351	1165	1135	
Sulfur	ppm	ASTM D5185(m)	3903	2092	1876	
Lithium	ppm	ASTM D5185(m)	0000	<1	<1	
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	9	16	
Sodium	ppm	ASTM D5185(m)		3	5	
Potassium	ppm	ASTM D5185(m)	>20	11	31	
Fuel	%	ASTM D7593*	>6.0	0.0	0.6	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.7	1	
Nitration	Abs/cm	ASTM D7624*	>20	12.2	13.7	
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.7	27.7	



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WC0948221

Lab Number : 02645219 Unique Number : 5802758

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PERFORMANCE EQUIPMENT - VISION TRUCK Received : 03 Jul 2024 : 04 Jul 2024

**Tested** : 04 Jul 2024 - Kevin Marson Diagnosed

Test Package : MOB 1 ( Additional Tests: FuelDilution, PercentFuel ) 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.

415 EVANS AVENUE ETOBICOKE, ON **CA M8W 0B3** 

Contact: Service etobservice@visiontruckgroup.com

T: F:

Contact/Location: Service ? - PER415ETO