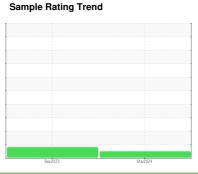


# **OIL ANALYSIS REPORT**

# Area [66968] **VOLVO VNR860 4634**

Diesel Engine

PETRO CANADA DURON SAE 10W30 (--- GAL)





### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

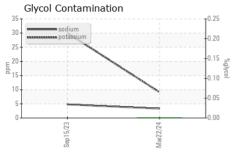
### **Fluid Condition**

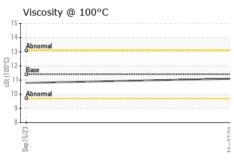
The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0909049	WC0853677	
Sample Date		Client Info		22 Mar 2024	15 Sep 2023	
Machine Age	kms	Client Info		328139	242022	
Oil Age	kms	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ATTENTION	
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	
Water		WC Method		NEG	NEG	
						la i a ta uu . O
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	56	102	
Chromium	ppm	ASTM D5185(m)		1	2	
Nickel	ppm	ASTM D5185(m)	>2	3	<u>6</u>	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>2	0	<1	
Aluminum	ppm	ASTM D5185(m)	>25	11	17	
Lead	ppm	ASTM D5185(m)	>40	2	7	
Copper	ppm	ASTM D5185(m)	>330	39	112	
Tin	ppm	ASTM D5185(m)	>15	2	4	
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	1	1	
Barium	ppm	AOTH PELOS	4	_		
	ppiii	ASTM D5185(m)	I	0	<1	
Molybdenum	ppm	ASTM D5185(m) ASTM D5185(m)	1	63	<1 70	
Molybdenum Manganese		, ,	1	_		
-	ppm	ASTM D5185(m)	1	63	70	
Manganese	ppm	ASTM D5185(m) ASTM D5185(m)	1 1 10	63 0	70 3	
Manganese Magnesium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 1 10	63 0 973	70 3 974	
Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 1 10 2942	63 0 973 1090	70 3 974 1134	
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 1 10 2942 1102	63 0 973 1090 881	70 3 974 1134 1001	
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185(m)	1 1 10 2942 1102 1351 3903	63 0 973 1090 881 1173	70 3 974 1134 1001 1160	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	1 1 10 2942 1102 1351 3903	63 0 973 1090 881 1173 2043	70 3 974 1134 1001 1160 1935	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	1 1 10 2942 1102 1351 3903	63 0 973 1090 881 1173 2043	70 3 974 1134 1001 1160 1935	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	1 1 10 2942 1102 1351 3903	63 0 973 1090 881 1173 2043 <1	70 3 974 1134 1001 1160 1935 <1	     history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  method ASTM D5185(m)	1 1 10 2942 1102 1351 3903	63 0 973 1090 881 1173 2043 <1 current 6	70 3 974 1134 1001 1160 1935 <1 history1 14	    history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  method  ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 1 10 2942 1102 1351 3903	63 0 973 1090 881 1173 2043 <1 current 6 3	70 3 974 1134 1001 1160 1935 <1 history1 14 5	history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  METHOD  ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 1 10 2942 1102 1351 3903	63 0 973 1090 881 1173 2043 <1 current 6 3 9	70 3 974 1134 1001 1160 1935 <1 history1 14 5 30	history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Glycol	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  METHOD  METHOD  ASTM D5185(m)  ASTM D5185(m)	1 1 10 2942 1102 1351 3903 limit/base >25	63 0 973 1090 881 1173 2043 <1 current 6 3 9 0.0	70 3 974 1134 1001 1160 1935 <1 history1 14 5 30 NEG	history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	1 1 10 2942 1102 1351 3903 limit/base >25 >20	63 0 973 1090 881 1173 2043 <1 current 6 3 9 0.0 current	70 3 974 1134 1001 1160 1935 <1 history1 14 5 30 NEG history1	history2 history2



## **OIL ANALYSIS REPORT**





FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.8	27.4	
VISUAL		method	limit/base	current	history1	history2
Emulsified Water Free Water	scalar scalar	Visual* Visual*	>0.2	NEG NEG	NEG NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	11.1	10.8	
GRAPHS				1 d (n.m.)		
Abnormal  Abnormal  Severe  Abnormal  Abnormal  Abnormal			100 80 60 40 20 50 40 40	Abnormal	pm)	Mar2224
Copper (ppm)  Severe dependence of the control of t			50727278W 80 70 60 50 10 40 50 10 40 50 10 40 50 10 40 50 10 40 10 10 10 10 10 10 10 10 10 1	Severe		Mar22/24



**CALA** ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

: WC0909049 Lab Number : 02625521

Unique Number : 5750640

Received : 01 Apr 2024 **Tested** Diagnosed

: 01 Apr 2024 : 01 Apr 2024 - Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PERFORMANCE EQUIPMENT - VISION TRUCK 415 EVANS AVENUE ETOBICOKE, ON

CA M8W 0B3 Contact: Service

Test Package : MOB 1 ( Additional Tests: Glycol ) To discuss this sample report, contact Customer Service at 1-800-268-2131.

etobservice@visiontruckgroup.com T:

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.

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