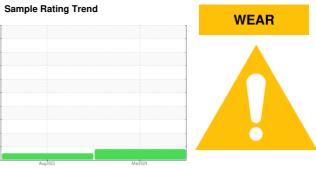


OIL ANALYSIS REPORT

Area [66824] **VOLVO VNR660 4649**

Diesel Engine

PETRO CANADA DURON SHP 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 abnormal. Exhaust valve wear is indicated.

Contamination

There is no indication of any contamination in the

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

JAL)		,	Aug2023	Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0909053	WC0831170	
Sample Date		Client Info		16 Mar 2024	18 Aug 2023	
Machine Age	kms	Client Info		279525	181251	
Oil Age	kms	Client Info		0	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				ABNORMAL	NORMAL	
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	57	58	
Chromium	ppm	ASTM D5185(m)	>20	1	2	
Nickel	ppm	ASTM D5185(m)	>2	<u> </u>	2	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>2	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>25	10	9	
Lead	ppm	ASTM D5185(m)	>40	3	4	
Copper	ppm	ASTM D5185(m)	>330	26	57	
Tin	ppm	ASTM D5185(m)	>15	2	3	
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)	2	3	6	
Barium	ppm	ASTM D5185(m)	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	50	68	68	
Manganese	ppm	ASTM D5185(m)	0	<1	2	
Magnesium	ppm	ASTM D5185(m)	950	1003	934	
Calcium	ppm	ASTM D5185(m)	1050	1167	1345	
Phosphorus	ppm	ASTM D5185(m)	995	1000	1035	
Zinc	ppm	ASTM D5185(m)	1180	1252	1197	
Sulfur	ppm	ASTM D5185(m)	2600	2294	2040	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	10	10	
Sodium	ppm	ASTM D5185(m)		2	3	
Potassium	ppm	ASTM D5185(m)	>20	8	16	
Glycol	%	ASTM D7922*		0.0	NEG	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	8.0	0.8	
Nitration	Abs/cm	ASTM D7624*	>20	11.9	13.7	
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.4	27.6	



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Sample No. Lab Number : 02622939

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PERFORMANCE EQUIPMENT - VISION TRUCK : WC0909053

Unique Number : 5748058

Received **Tested**

: 19 Mar 2024 Diagnosed Test Package : MOB 1 (Additional Tests: Glycol)

: 19 Mar 2024 : 20 Mar 2024 - Kevin Marson

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

Contact: Service etobservice@visiontruckgroup.com T:

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.

F: Contact/Location: Service ? - PER415ETO