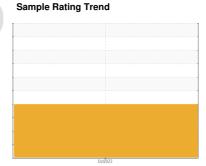


OIL ANALYSIS REPORT

Area [62411] VOLVO VNL 4447

Diesel Engine

DIESEL ENGINE OIL SAE 30 (--- GAL)





DIAGNOSIS

Recommendation

Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

Wear

Iron and nickel ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Exhaust valve wear is indicated.

Contamination

Fuel content negligible. Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative.

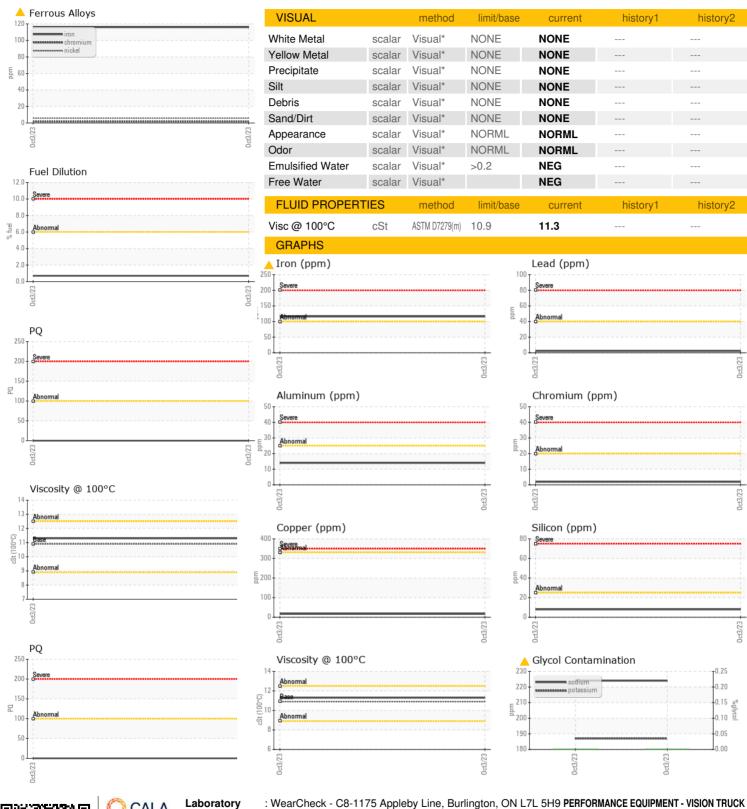
Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear. The condition of the oil is acceptable for the time in service (see recommendation).

				Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0853672		
Sample Date		Client Info		03 Oct 2023		
Machine Age	kms	Client Info		651737		
Oil Age	kms	Client Info		96111		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>100	<u> 116</u>		
Chromium	ppm	ASTM D5185(m)	>20	2		
Nickel	ppm	ASTM D5185(m)	>2	<u>^</u> 6		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>2	<1		
Aluminum	ppm	ASTM D5185(m)	>25	14		
Lead	ppm	ASTM D5185(m)	>40	2		
Copper	ppm	ASTM D5185(m)	>330	17		
Tin	ppm	ASTM D5185(m)	>15	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	4		
Barium	ppm	ASTM D5185(m)	10	<1		
Molybdenum	ppm	ASTM D5185(m)	100	84		
Manganese	ppm	ASTM D5185(m)		2		
Magnesium	ppm	ASTM D5185(m)	450	937		
Calcium	ppm	ASTM D5185(m)	3000	1179		
Phosphorus	ppm	ASTM D5185(m)	1150	947		
Zinc	ppm	ASTM D5185(m)	1350	1203		
Sulfur	ppm	ASTM D5185(m)	4250	2124		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8		
Sodium	ppm	ASTM D5185(m)	>75	<u>224</u>		
Potassium	ppm	ASTM D5185(m)	>20	<u> </u>		
Fuel	%	ASTM D7593*	>6.0	0.7		
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1		
Nitration	Abs/cm	ASTM D7624*	>20	13.8		
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.1		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	25.1		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WC0853672 +02587967

: 5657033

Received Diagnosed

: 10 Oct 2023 : 11 Oct 2023

Diagnostician : Kevin Marson

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

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

Contact: Service etobservice@visiontruckgroup.com

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.

T:

F: