

OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

Area [69677] VOLVO VNR660 4627 Component

Diesel Engine Fluid DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Test for glycol is positive. Light fuel dilution occurring. There is a light concentration of glycol present in the oil. There is a moderate concentration of water present in the oil. Free water present. No other contaminants were detected in the oil.

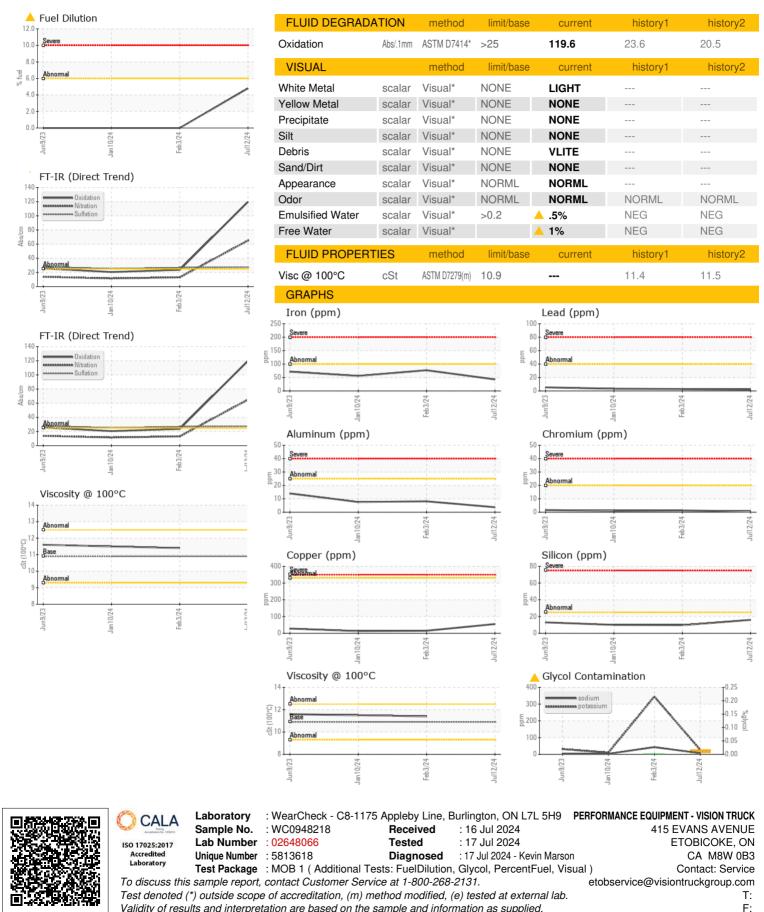
Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

		Jun202	3 Jan2024	Feb2024 J	ul2024	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0948218	WC0895328	WC0895323
Sample Date		Client Info		12 Jul 2024	03 Feb 2024	10 Jan 2024
Machine Age	mths	Client Info		30	323180	355466
Oil Age	mths	Client Info		6	20472	100018
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	43	77	56
Chromium	ppm	ASTM D5185(m)	>20	<1	1	1
Nickel	ppm	ASTM D5185(m)	>2	4	6	2
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	4	8	8
Lead	ppm	ASTM D5185(m)	>40	2	3	3
Copper	ppm	ASTM D5185(m)	>330	55	15	13
Tin	ppm	ASTM D5185(m)	>15	2	2	2
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	9	8	<1
Barium	ppm	ASTM D5185(m)	10	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	100	45	58	64
Manganese	ppm	ASTM D5185(m)		2	1	<1
Magnesium	ppm	ASTM D5185(m)	450	687	778	991
Calcium	ppm	ASTM D5185(m)	3000	986	1319	1173
Phosphorus	ppm	ASTM D5185(m)	1150	947	852	1016
Zinc	ppm	ASTM D5185(m)	1350	932	1089	1221
Sulfur	ppm	ASTM D5185(m)	4250	2852	2328	2323
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	16	10	10
Sodium	ppm	ASTM D5185(m)		6	43	3
Potassium	ppm	ASTM D5185(m)	>20	<u> </u>	3 44	10
Fuel	%	ASTM D7593*	>6.0	<u> </u>	<1.0	<1.0
Glycol	%	ASTM D7922*		0.017	0.0	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	2.7	0.5	0.9
Nitration	Abs/cm	ASTM D7624*	>20	65.0	13.0	11.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.5	26.8	25.1



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Report Id: PER415ETO [WCAMIS] 02648066 (Generated: 07/17/2024 16:31:30) Rev: 1

Contact/Location: Service ? - PER415ETO