

## **OIL ANALYSIS REPORT**

Sample Rating Trend



### [67368] VOLVO VNL 4509 Component

Diesel Engine Fluid DIESEL ENGINE OIL SAE 30 (--- GAL)

#### DIAGNOSIS

Area

#### Recommendation

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. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

#### A Wear

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

#### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

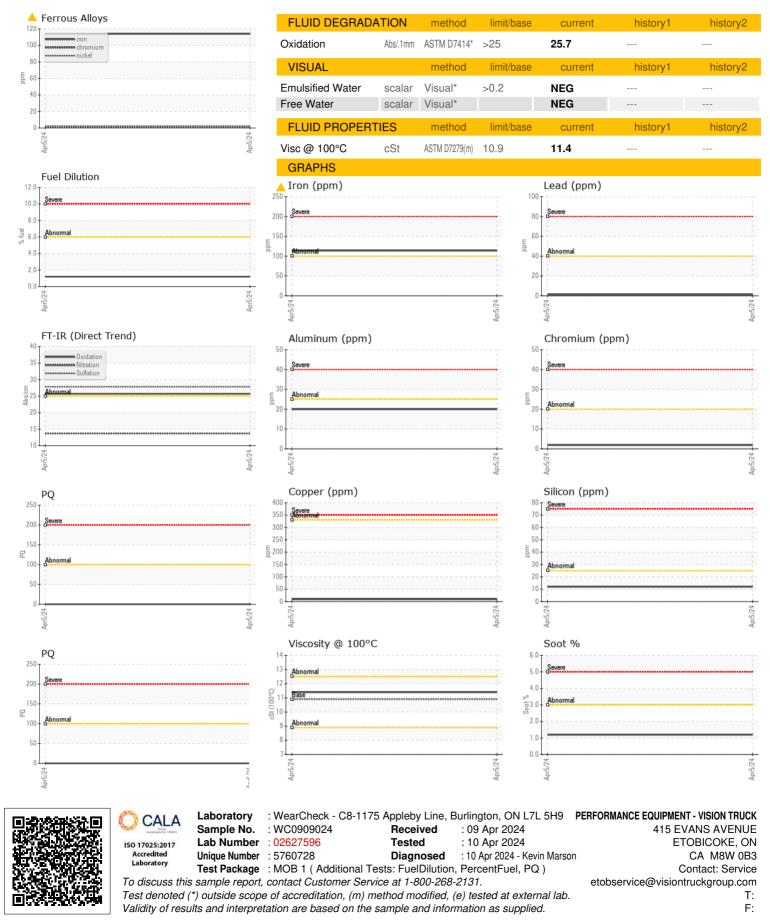
#### Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0909024		
Sample Date		Client Info		05 Apr 2024		
Machine Age	mths	Client Info		56		
Oil Age	mths	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>100	▲ 114		
Chromium	ppm	ASTM D5185(m)	>20	2		
Nickel	ppm	ASTM D5185(m)	>2	- <1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>25	20		
Lead	ppm	ASTM D5185(m)	>40	1		
Copper	ppm	ASTM D5185(m)	>330	9		
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	0		
Molybdenum	ppm	ASTM D5185(m)	100	60		
Manganese	ppm	ASTM D5185(m)		1		
Magnesium	ppm	ASTM D5185(m)	450	935		
Calcium	ppm	ASTM D5185(m)	3000	1173		
Phosphorus	ppm	ASTM D5185(m)	1150	964		
Zinc	ppm	ASTM D5185(m)	1350	1181		
Sulfur	ppm	ASTM D5185(m)	4250	2020		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	12		
	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>25 >75	12 8		
Silicon						
Silicon Sodium	ppm	ASTM D5185(m)	>75	8		
Silicon Sodium Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>75 >20	8 5		
Silicon Sodium Potassium Fuel	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D7593*	>75 >20 >6.0	8 5 1.2		
Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm % %	ASTM D5185(m) ASTM D5185(m) ASTM D7593* method	>75 >20 >6.0 limit/base >3	8 5 1.2 <u>current</u> 1.2	  history1	  history2
Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm %	ASTM D5185(m) ASTM D5185(m) ASTM D7593* <b>method</b> ASTM D7844*	>75 >20 >6.0 limit/base >3	8 5 1.2 current	  history1	  history2



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Contact/Location: Service ? - PER415ETO Page 2 of 2