

OIL ANALYSIS REPORT



Sample Rating Trend







Machine Id **VOLVO EC350E 314739**

Diesel Engine

Fluid VOLVO ULTRA DIESEL ENGI

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

E OIL 15W40 VDS-3 (13 GAL)			May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0001235		
Sample Date		Client Info		01 May 2024		
Machine Age	hrs	Client Info		1006		
Oil Age	hrs	Client Info		1006		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	8		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	3		
_ead	ppm	ASTM D5185m	>20	<1		
Copper	ppm	ASTM D5185m	>15	4 96		
Tin	ppm	ASTM D5185m	>10	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2.5	269		
Barium	ppm	ASTM D5185m	0.0	2		
Molybdenum	ppm	ASTM D5185m	0.7	120		
Manganese	ppm	ASTM D5185m	0.0	<1		
Magnesium	ppm	ASTM D5185m	256	491		
Calcium	ppm	ASTM D5185m	2057	1535		
Phosphorus	ppm	ASTM D5185m	935	809		
Zinc	ppm	ASTM D5185m	1223	944		
Sulfur	ppm	ASTM D5185m	4079	2715		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	15		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	3		
Fuel	%	ASTM D3524	>6.0	0.4		
Glycol	%	*ASTM D2982		NEG		
INFRA-RED		method	limit/base	current	history1	history2

0.1

7.9

22.9

17.7

6.3

current

limit/base

*ASTM D7844 >3

Abs/cm *ASTM D7624 >20

Abs/.1mm *ASTM D7415 >30

method

Abs/.1mm *ASTM D7414 >25

Soot %

Nitration

Sulfation

Oxidation

FLUID DEGRADATION

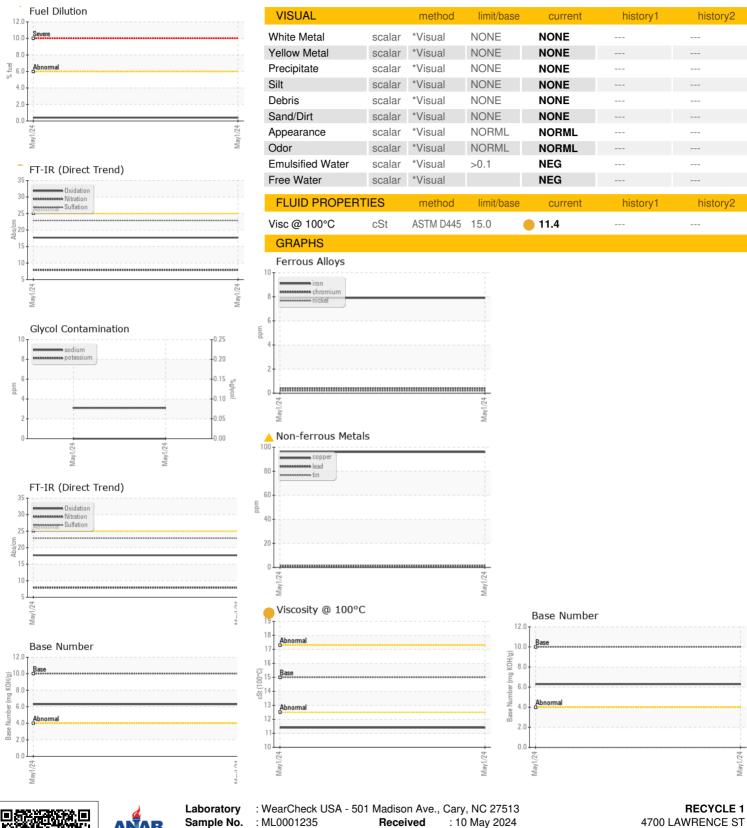
Base Number (BN) mg KOH/g ASTM D2896 10

history1

history2



OIL ANALYSIS REPORT





Certificate 12367

Sample No.

: ML0001235 **Lab Number** : 06176450 Unique Number : 11022503

Received : 10 May 2024 **Tested** : 15 May 2024

Diagnosed : 15 May 2024 - Sean Felton Test Package : CONST (Additional Tests: FuelDilution, Glycol, PercentFuel, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

US 20781 Contact: MIKE DESJARDINS mdesjarkins@wbwaste.com T:

HYATTSVILLE, MD

 st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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