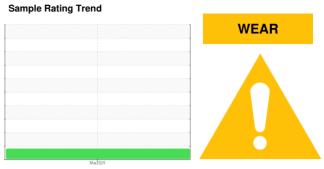


OIL ANALYSIS REPORT

[EAST COAST ABE] **VOLVO EC300E EX33 (S/N 317337)**

Diesel Engine

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)



DIAGNOSIS

Recommendation

The oil 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

There is no indication of any contamination in the oil.

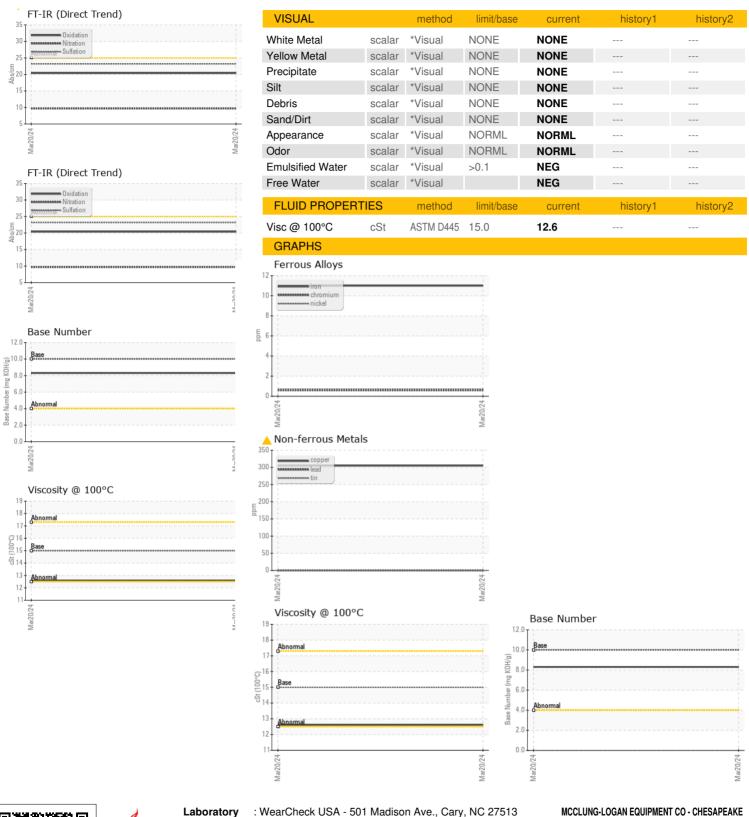
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

•	_)					
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0001708		
Sample Date		Client Info		20 Mar 2024		
Machine Age	hrs	Client Info		1392		
Oil Age	hrs	Client Info		440		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0		
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	11		
Chromium	ppm	ASTM D5185m	>10	<1		
Vickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>10	5		
_ead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>15	4 305		
Tin	ppm		>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2.5	38		
Barium	ppm	ASTM D5185m	0.0	2		
Molybdenum	ppm	ASTM D5185m	0.7	53		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m	256	430		
Calcium	ppm	ASTM D5185m		1747		
Phosphorus	ppm	ASTM D5185m	935	1070		
Zinc	ppm	ASTM D5185m	1223	1163		
Sulfur	ppm	ASTM D5185m	4079	3001		
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	8		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	13		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	9.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4		



OIL ANALYSIS REPORT





Certificate 12367

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ML0001708 Lab Number : 06195009 Unique Number : 11057132

Received **Tested** Test Package : CONST (Additional Tests: TBN)

: 30 May 2024 : 31 May 2024 Diagnosed

: 31 May 2024 - Sean Felton

US 23323 Contact: TOMMY GRIFFIN tgriffin@mcclung-logan.com T: (757)485-3314

4112 HOLLAND BLVD

CHESAPEAKE, VA

* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact/Location: TOMMY GRIFFIN - VOLVO0264

F: (757)485-3415