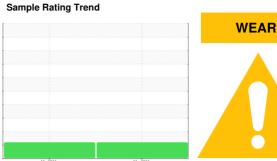


# **OIL ANALYSIS REPORT**





VOLVO L150H EQ0023433 (S/N 7260)

Rear Diesel Engine

Fluid VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (14 GAL)

## 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 has decreased, but is still abnormal. All other component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

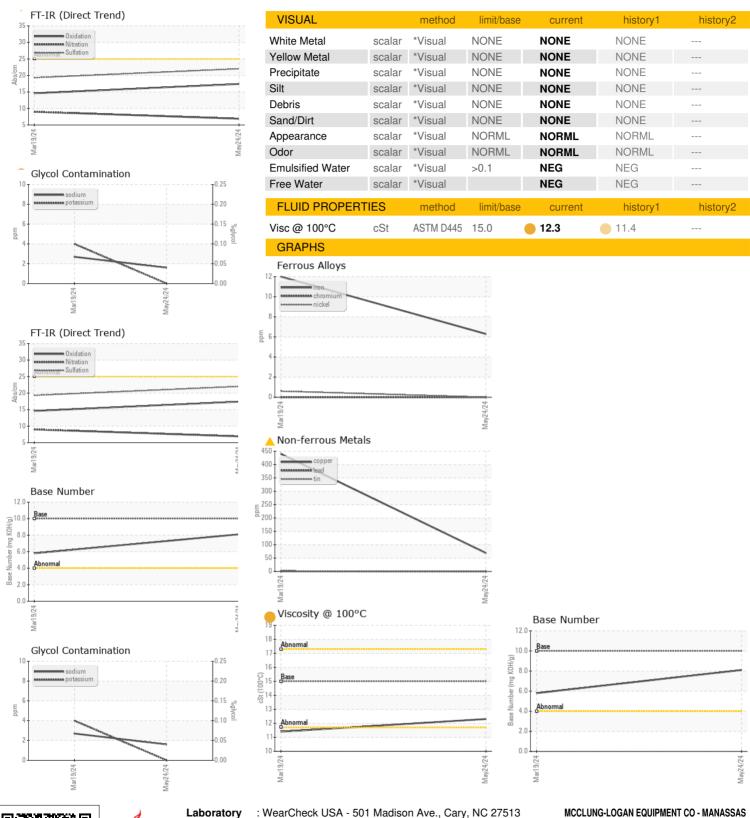
### Fluid Condition

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 (	14 GAL)		Mar2024	May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0002190	ML0001070	
Sample Date		Client Info		24 May 2024	19 Mar 2024	
Machine Age	hrs	Client Info		1051	542	
Oil Age	hrs	Client Info		1051	542	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATION	٧	method	limit/base	current	history1	history2
-uel		WC Method	>6.0	<1.0	0.7	
Nater		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	6	12	
Chromium	ppm	ASTM D5185m	>100	0	0	
Nickel	ppm	ASTM D5185m	>10	0	<1	
ritanium	ppm	ASTM D5185m	<b>/10</b>	0	0	
Silver		ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	2	3	
_ead		ASTM D5185m	>20	0	<1	
	ppm			<b>△</b> 69	<u>440</u>	
Copper	ppm	ASTM D5185m	>15			
in 'a a a di	ppm	ASTM D5185m	>10	<1	2	
/anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2.5	148	67	
Barium	ppm	ASTM D5185m	0.0	0	<1	
Molybdenum	ppm	ASTM D5185m	0.7	76	87	
Manganese	ppm	ASTM D5185m	0.0	<1	2	
Magnesium	ppm	ASTM D5185m	256	538	55	
Calcium	ppm	ASTM D5185m	2057	1661	2124	
Phosphorus	ppm	ASTM D5185m	935	915	988	
Zinc	ppm	ASTM D5185m	1223	1045	1189	
Sulfur	ppm	ASTM D5185m	4079	3294	4398	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	11	21	
Sodium	ppm	ASTM D5185m		2	3	
Potassium	ppm	ASTM D5185m	>20	0	4	
Glycol	%	*ASTM D2982		NEG	NEG	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	6.9	9.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	19.3	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	14.6	
Base Number (BN)	mg KOH/g	ASTM D2896	10	8.1	5.8	
Dado Hambor (DIN)	my normy	7.0 TWI D2030	. 0	0.1	0.0	



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: ML0002190 Lab Number : 06196246 Unique Number : 11058369

**Tested** 

Received : 31 May 2024 : 03 Jun 2024 Diagnosed

: 03 Jun 2024 - Don Baldridge

8450 QUARRY ROAD MANASSAS, VA US 20110

Test Package : CONST ( Additional Tests: Glycol, TBN ) Contact: MIKE MAYHUGH MMAYHUGH@MCCLUNG-LOGAN.COM To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

T: (703)393-7344 F: (703)393-7844 Submitted By: Emylio Pineda