

# **OIL ANALYSIS REPORT**

# [W02008461] **VOLVO EC350E 314605**

{not provided} (14 GAL)



# Sample Rating Trend **WEAR**

# **DIAGNOSIS**

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. ( Customer Sample Comment: W02008461)

The copper level has decreased, but is still abnormal.

### Contamination

There is no indication of any contamination in the

## **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 INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0001145	ML0001065	
Sample Date		Client Info		21 Jun 2024	07 May 2024	
Machine Age	hrs	Client Info		1052	500	
Oil Age	hrs	Client Info		552	500	
Oil Changed		Client Info		Changed	Changed	
Sample Status				MARGINAL	ABNORMAL	
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	5	18	
Chromium	ppm	ASTM D5185m	>10	0	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	<1	2	
Lead	ppm	ASTM D5185m	>20	0	<1	
Copper	ppm	ASTM D5185m	>15	<b>47</b>	<u>^</u> 291	
Tin	ppm	ASTM D5185m	>10	0	2	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		37	26	
Barium	ppm	ASTM D5185m		0	<1	
Molybdenum	ppm	ASTM D5185m		55	91	
Manganese	ppm	ASTM D5185m		<1	3	
Magnesium	ppm	ASTM D5185m		559	23	
Calcium	ppm	ASTM D5185m		1648	2289	
Phosphorus	ppm	ASTM D5185m		971	1014	
Zinc	ppm	ASTM D5185m		1171	1180	
Sulfur	ppm	ASTM D5185m		3452	3824	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	27	
Sodium	ppm	ASTM D5185m		2	3	
Potassium	ppm	ASTM D5185m	>20	0	2	
Fuel	%	ASTM D3524	>6.0	<1.0	0.6	
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	7.4	9.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	22.8	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	18.3	
	mg KOH/g	ASTM D2896		8.6	4.0	
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# **OIL ANALYSIS REPORT**







Laboratory Sample No.

: ML0001145 Lab Number : 06219113 Unique Number : 11097310

Received : 24 Jun 2024 **Tested** 

: 26 Jun 2024 Diagnosed : 26 Jun 2024 - Jonathan Hester

8450 QUARRY ROAD MANASSAS, VA US 20110

Certificate 12367

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

Contact: MIKE MAYHUGH MMAYHUGH@MCCLUNG-LOGAN.COM T: (703)393-7344

 $^st$  - 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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