

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL



## [W02008216] VOLVO EC300E 312949 Diesel Engine

MOBIL 15W40 (8 GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: W02008216 )

### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

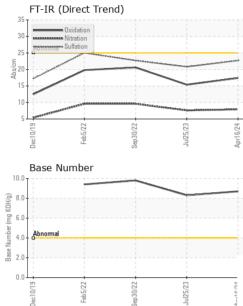
### Fluid Condition

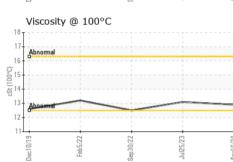
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		ML0001132	VCP416213	VCP386194	
Sample Date		Client Info		16 Apr 2024	25 Jul 2023	30 Sep 2022	
Machine Age	hrs	Client Info		5175	4635	4054	
Oil Age	hrs	Client Info		500	500	500	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2	
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0	
Water		WC Method	>0.1	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	10	11	15	
Chromium	ppm	ASTM D5185m	>10	1	<1	<1	
Nickel	ppm	ASTM D5185m	>10	1	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>2	<1	0	0	
Aluminum	ppm	ASTM D5185m	>10	7	6	8	
Lead	ppm	ASTM D5185m	>20	2	<1	1	
Copper	ppm	ASTM D5185m	>15	3	2	3	
Tin	ppm	ASTM D5185m	>10	2	<1	2	
Antimony	ppm	ASTM D5185m					
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		308	205	41	
Barium	ppm	ASTM D5185m		<1	0	0	
Molybdenum	ppm	ASTM D5185m		122	79	55	
Manganese	ppm	ASTM D5185m		1	<1	<1	
Magnesium	ppm	ASTM D5185m		613	494	475	
Calcium	ppm	ASTM D5185m		1555	1861	1760	
Phosphorus	ppm	ASTM D5185m		802	803	861	
Zinc	ppm	ASTM D5185m		878	987	1043	
Sulfur	ppm	ASTM D5185m		2908	3358	3282	
CONTAMINANTS	3	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	8	6	8	
Sodium	ppm	ASTM D5185m	>118	<1	2	2	
Potassium	ppm	ASTM D5185m	>20	4	2	8	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	7.9	7.6	9.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	20.8	22.7	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	15.4	20.6	
Base Number (BN)	mg KOH/g	ASTM D2896		8.7	8.3	9.8	
9·08·27) Rev: 1	0 0			Submitted By: DABBELL ANDES			



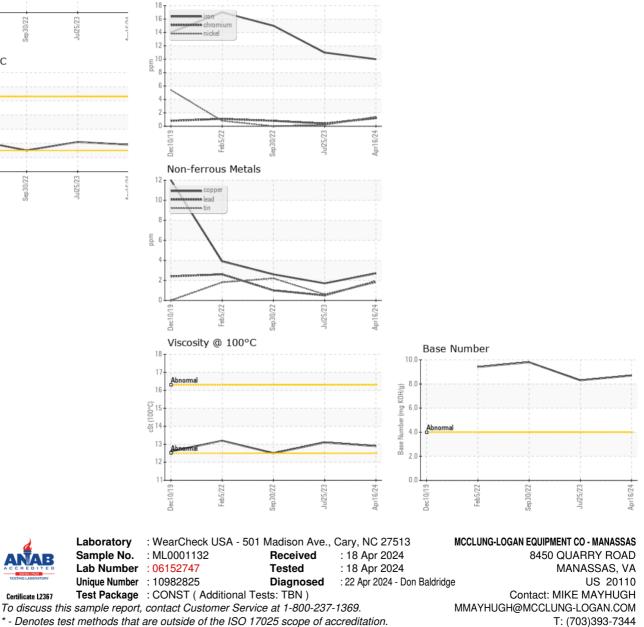
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
			11112/0430		· · · · ·	
Visc @ 100°C	cSt	ASTM D445		12.9	13.1	12.5
GRAPHS						

Ferrous Alloys



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

Certificate 12367

Submitted By: DARRELL ANDES

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F: (703)393-7844