

Area [W02008168] Machine Id VOLVO EC350 314516 Component Diesel Engine Fluid MOBIL 15W40 (14 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: W02008168)

WEAR

All component wear rates are normal.

CONTAMINATION

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.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0001083	VCP418746	VCP418795
Sample Date		Client Info		12 Apr 2024	01 Dec 2023	24 Aug 2023
Machine Age	hrs	Client Info		1942	1479	1005
Oil Age	hrs	Client Info		500	500	500
Filter Age	hrs	Client Info		500	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ABNORMAL
			400	•	_	-
Iron	ppm	ASTM D5185m	>100	9	7	5
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m	0	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	5	2	4
Lead	ppm	ASTM D5185m	>20	1	0	0
Copper	ppm	ASTM D5185m	>15	11	<1	<u> </u>
Tin	ppm	ASTM D5185m	>10	2	0	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	13	6	10
Potassium	ppm	ASTM D5185m		2	<1	0
Fuel	ppiii	WC Method	>6.0	2 <1.0	<1.0	<1.0
Water		WC Method	>0.0	<1.0 NEG	NEG	×1.0
Glycol		WC Method	20.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.7	8.3
Sulfation	Abs/.1mm	*ASTM D7024	>30	23.1	23.5	21.5
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
	Jour		20.1			NLO
Sodium	ppm	ASTM D5185m	>118	2	27	<1
Boron	ppm	ASTM D5185m		383	1	151
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		175	56	107
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		976	920	512
Calcium	ppm	ASTM D5185m		2195	1067	1853
Phosphorus	ppm	ASTM D5185m		1077	1011	830
Zinc	ppm	ASTM D5185m		1251	1235	1012
Sulfur	ppm	ASTM D5185m		3928	3004	3434
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	17.9	16.3
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	7.4	6.3
Visc @ 100°C	cSt	ASTM D445		11.8	12.0	11.8
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WEAR

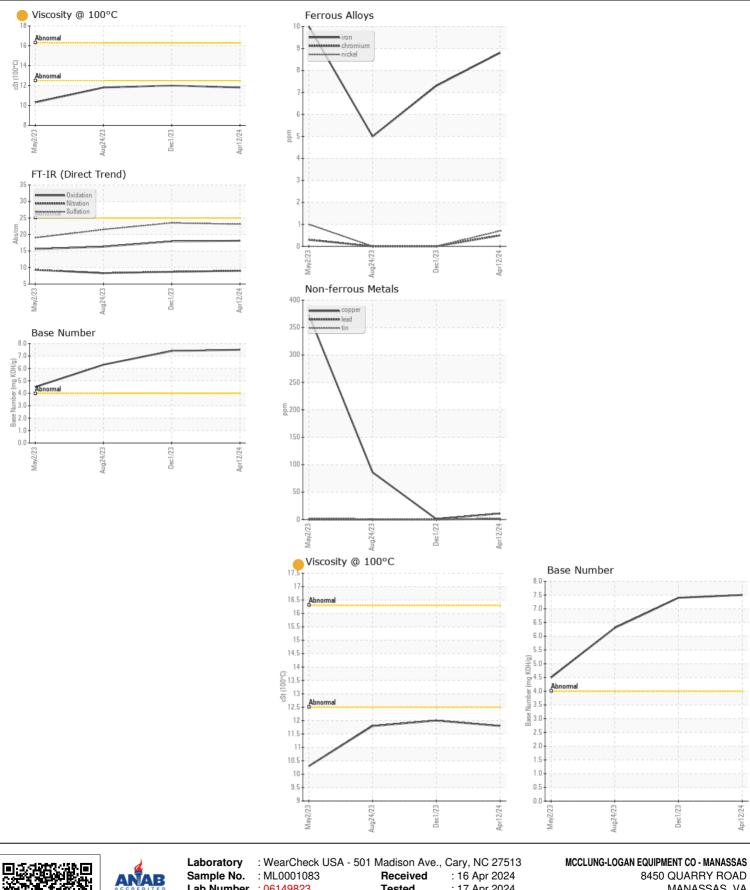
CONTAMINATION

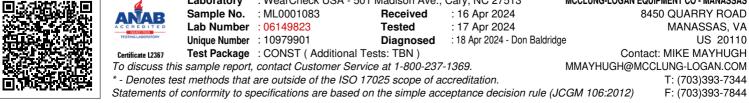
FLUID CONDITION

NORMAL

NORMAL

**ATTENTION** 





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