

[W02008222] VOLVO EC350 314382 Diesel Engine

MOBIL 15W40 (14 GAL)

## 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. (Customer Sample Comment: W02008222 )

All component wear rates are normal.

## CONTAMINATION

There is no indication of any contamination in the oil.

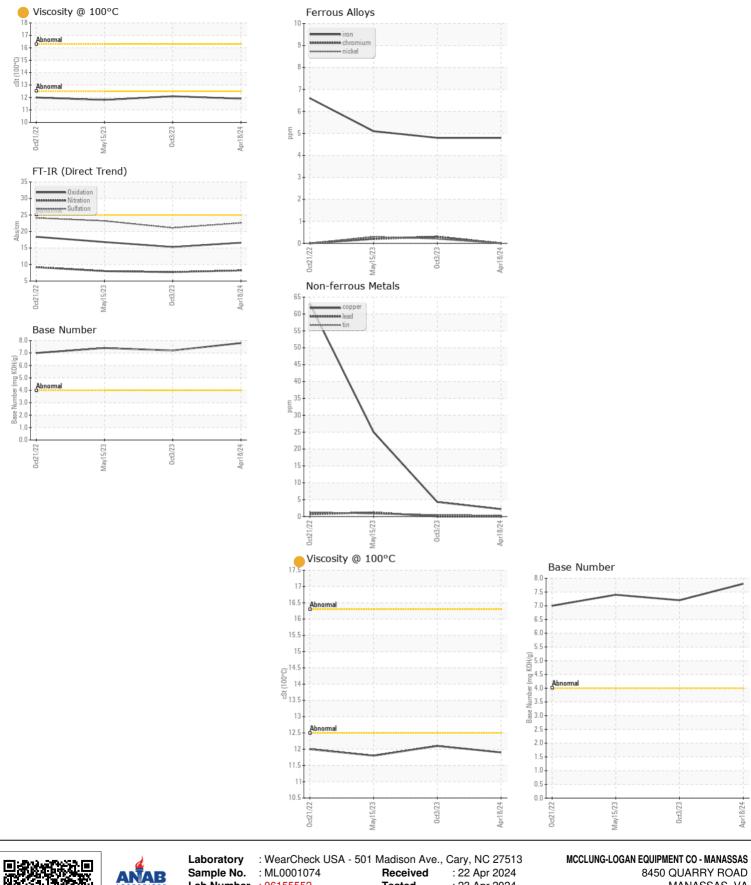
## **FLUID CONDITION**

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0001074	VCP418322	VCP419859
Sample Date		Client Info		18 Apr 2024	03 Oct 2023	15 May 2023
Machine Age	hrs	Client Info		2470	1984	1504
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	ATTENTION
Iron	ppm	ASTM D5185m	>100	5	5	5
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	3	2
Lead	ppm	ASTM D5185m	>20	0	0	1
Copper	ppm	ASTM D5185m	>15	2	4	25
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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Silicon	ppm	ASTM D5185m	>20	6	7	7
Potassium	ppm	ASTM D5185m	>20	1	0	1
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol	0/	WC Method	0	NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.7	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	21.1	23.2
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
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>118	24	2	2
Boron	ppm	ASTM D5185m	-	290	219	247
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		113	111	113
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		566	561	607
Calcium	ppm	ASTM D5185m		1440	1559	1574
Phosphorus	ppm	ASTM D5185m		662	709	762
Zinc	ppm	ASTM D5185m		742	825	908
Sulfur	ppm	ASTM D5185m		2573	2432	3428
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	15.3	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	-	7.8	7.2	7.4
Visc @ 100°C	cSt	ASTM D445		11.9	12.1	11.8
	501	. 10 1 11 0 1 10		<u> </u>		



WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION **ATTENTION** 



Received 8450 QUARRY ROAD Sample No. : ML0001074 : 22 Apr 2024 Lab Number : 06155552 Tested MANASSAS, VA : 23 Apr 2024 Diagnosed : 24 Apr 2024 - Sean Felton US 20110 Unique Number : 10990975 Test Package : CONST (Additional Tests: TBN) Contact: MIKE MAYHUGH Certificate L2367 MMAYHUGH@MCCLUNG-LOGAN.COM To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (703)393-7344 F: (703)393-7844 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)