WEAR ABNORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL



[W02008527] Machine Id VOLVO EC350 314481 Component Front Front Left Final Drive

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (2 GAL)

Visc @ 40°C

cSt

ASTM D445 333

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: W02008527)



Gear wear is indicated.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress.

FLUID CONDITION

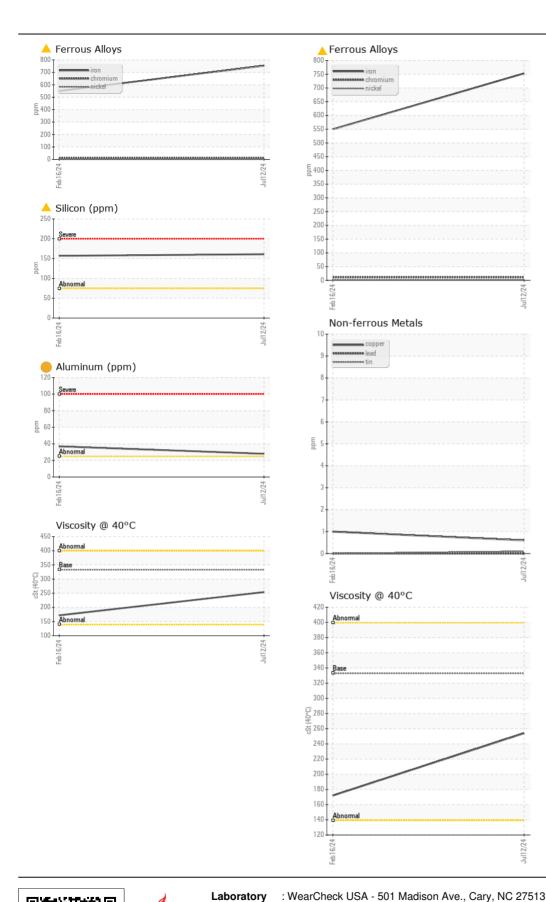
The condition of the oil is acceptable for the time in service.

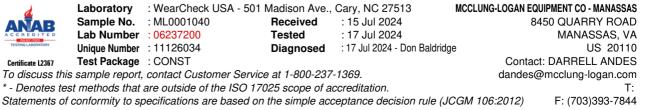
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0001040	WC0886337	
Sample Date		Client Info		12 Jul 2024	16 Feb 2024	
Machine Age	hrs	Client Info		2064	1536	
Oil Age	hrs	Client Info		528	500	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	N/A	
Sample Status				ABNORMAL	ABNORMAL	
Iron	ppm	ASTM D5185m	>500	A 753	▲ 550	
Chromium	ppm	ASTM D5185m	>10	1 1	1 1	
Nickel	ppm	ASTM D5185m	>10	1	<1	
Titanium	ppm	ASTM D5185m		3	4	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	<mark>)</mark> 28	37	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>50	<1	1	
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>75	1 61	1 57	
Potassium	ppm	ASTM D5185m	>20	9	11	
Water		WC Method	>0.2	NEG	NEG	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Sodium	ppm	ASTM D5185m		2	<1	
Boron	ppm	ASTM D5185m	111	95	0	
Barium	ppm	ASTM D5185m	0.0	0	15	
Molybdenum	ppm	ASTM D5185m	0.9	<1	1	
Manganese	ppm	ASTM D5185m	0.0	7	7	
Magnesium	ppm	ASTM D5185m	39	13	5	
Calcium	ppm	ASTM D5185m	93	26	16	
Phosphorus	ppm	ASTM D5185m	920	949	355	
Zinc	ppm	ASTM D5185m	104	16	0	
Sulfur	ppm	ASTM D5185m	20179	33800	16707	
	0°t	ASTM D445	222	254	170	

Submitted By: DARRELL ANDES

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Jul12/24

: 15 Jul 2024

: 17 Jul 2024

Received

Diagnosed

Tested

Report Id: VOLVO0002 [WUSCAR] 06237200 (Generated: 07/17/2024 16:43:21) Rev: 1

Certificate L2367

Sample No.

Lab Number : 06237200

Unique Number : 11126034

Test Package : CONST

: ML0001040

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.

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