

WEAR **ABNORMAL** CONTAMINATION NORMAL FLUID CONDITION **ATTENTION**

[W02008105] VOLVO L150H EQ0023433 (S/N 7260) Rear Diesel Engine

VÕLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (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: W02008105)

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The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

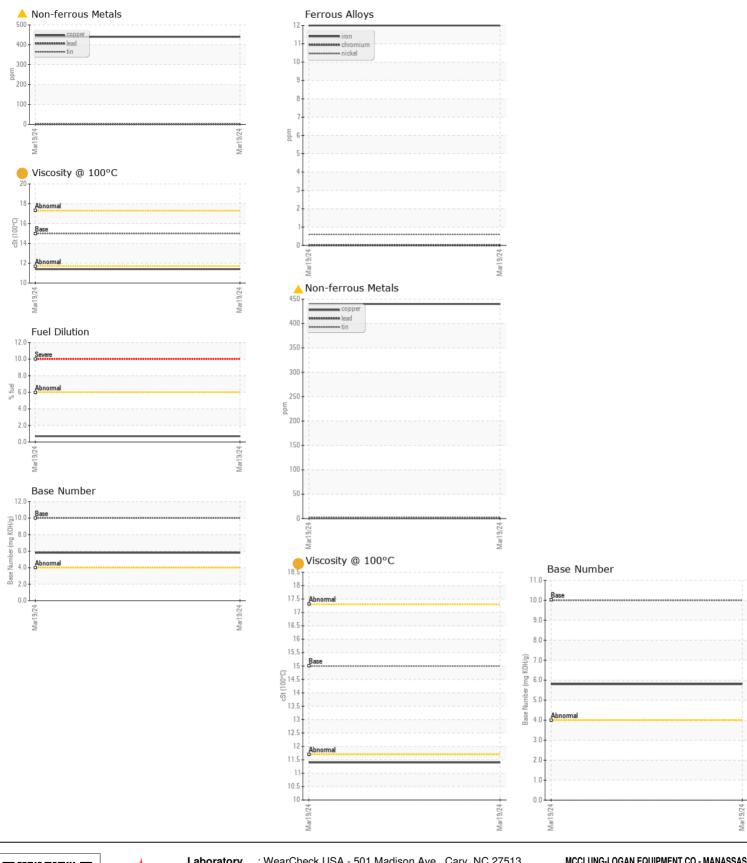
CONTAMINATION

FLUID CONDITION

Fuel content negligible. There is no indication of any contamination in the oil.

5	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ML0001070		
	Sample Date		Client Info		19 Mar 2024		
	Machine Age	hrs	Client Info		542		
	Oil Age	hrs	Client Info		542		
	Filter Age	hrs	Client Info		542		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
	Iron	ppm	ASTM D5185m	>100	12		
	Chromium	ppm	ASTM D5185m	>10	0		
	Nickel	ppm	ASTM D5185m	>10	<1		
	Titanium	ppm	ASTM D5185m	0	0		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m	>10	3		
	Lead	ppm	ASTM D5185m	>20	<1		
	Copper	ppm	ASTM D5185m	>15	▲ 440 0		
	Tin	ppm	ASTM D5185m	>10	2		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Silicon	ppm	ASTM D5185m	>20	21		
	Potassium	ppm	ASTM D5185m	>20	4		
	Fuel	%	ASTM D3524	>6.0	0.7		
	Water		WC Method	>0.1	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	9.0		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
	Sodium	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m	2.5	67		
	Barium	ppm	ASTM D5185m	0.0	<1		
	Molybdenum	ppm	ASTM D5185m	0.7	87		
	Manganese	ppm	ASTM D5185m	0.0	2		
	Magnesium	ppm	ASTM D5185m	256	55		
	Calcium	ppm	ASTM D5185m	2057	2124		
	Phosphorus	ppm	ASTM D5185m	935	988		
	Zinc	ppm	ASTM D5185m	1223	1189		
	Sulfur	ppm	ASTM D5185m	4079	4398		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6		
	Base Number (BN)	mg KOH/g	ASTM D2896	10	5.8		
	Visc @ 100°C	cSt	ASTM D445	15.0	11.4		

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



MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 回論 : ML0001070 8450 QUARRY ROAD Sample No. Received : 20 Mar 2024 Lab Number : 06124194 Tested : 23 Mar 2024 MANASSAS, VA Unique Number : 10938345 US 20110 Diagnosed : 23 Mar 2024 - Don Baldridge Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, 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 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (703)393-7844

Submitted By: DARRELL ANDES

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