

[LANGBOARD OSB] VOLVO L350H 1302 (S/N 1218)

Diesel Engine

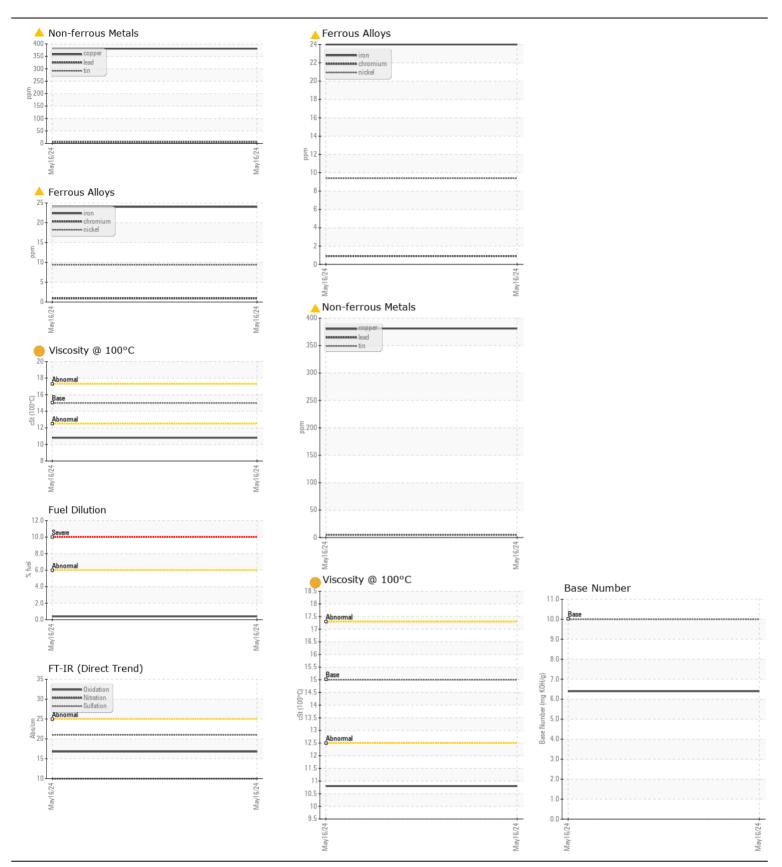
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION	
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RECOMMENDATION	Toot		Mathad	Limit/Abn	Curront	History	History 2
	Test	UOM	Method Client Info	Limit/Abn	Current ASC0004803	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number Sample Date		Client Info		16 May 2024		
	Machine Age	hrs	Client Info		541		
	Oil Age	hrs	Client Info		541		
	Filter Age	hrs	Client Info		541		
	Oil Changed	1115	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
	Gampie Glatus						
WEAR	Iron	ppm	ASTM D5185m	>100	24		
The copper level is abnormal. The nickel level is abnormal. In the	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>2	4 9		
absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are	Titanium	ppm	ASTM D5185m		<1		
typical for a new component breaking in.	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m	>25	5		
	Lead	ppm	ASTM D5185m	>40	5		
	Copper	ppm	ASTM D5185m	>330	🔺 381		
	Tin	ppm	ASTM D5185m	>15	4		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	32		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	17		
	Fuel	%	ASTM D3524	>6.0	0.4		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.5		
	Nitration	Abs/cm	*ASTM D7624	>20	10.0		
	Sulfation	Abs/.1mm	*ASTM D7415		21.0		
	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	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m	2.5	47		
	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		85		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		38		
	Calcium	ppm	ASTM D5185m	2057	2124		
	Phosphorus	ppm	ASTM D5185m		1054		
	Zinc	ppm	ASTM D5185m	1223	1123		
	Sulfur	ppm	ASTM D5185m		3836		
	Oxidation	Abs/.1mm	*ASTM D7414		16.8		
	Base Number (BN)				6.4		
	Visc @ 100°C	cSt	ASTM D2030		0.4 10.8		
		001		10.0	- 10.0	,	

typical for a new component breaking in.

CONTAMINATION



LANGBOARD INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : ASC0004803 Received **HIGHWAY 84 EAST** : 30 May 2024 Lab Number : 06194995 Tested QUITMAN, GA : 04 Jun 2024 : 04 Jun 2024 - Jonathan Hester Unique Number : 11057118 US 31643 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: SERVICE MANAGER Certificate L2367 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: (229)263-8943 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: AMANDA KARI Page 2 of 2