

١

[E15313] Machine Id VOLVO L90H 626247 Component Diesel Engine Fluid

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

				(15)			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP383766	VCP383342	VCP416738
	Sample Date		Client Info		12 Apr 2024	15 Dec 2023	25 Aug 2023
	Machine Age	hrs	Client Info		7253	5880	4792
	Oil Age	hrs	Client Info		0	1088	600
	Filter Age	hrs	Client Info		0	1088	0
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>200	11	17	12
	Chromium	ppm	ASTM D5185m	>20	1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>30	4	6	2
	Lead	ppm	ASTM D5185m	>40	1	0	0
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m		2	3	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	× 20	6	6	5
CONTAMINATION	Potassium		ASTM D5185m		2	0	<1
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		×1.0	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%		. 0			
			*ASTM D7844		0.6	1.2	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	10.3	7.9
	Sulfation	Abs/.1mm			22.4	23.2	23.0
	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 Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.2	NORML NEG	NORML NEG	NORML NEG
		Scalal	VISUAI	>0.2		NLG	NLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	1	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		33	25	23
	Barium	ppm	ASTM D5185m	0.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0.7	46	42	41
	Manganese	ppm	ASTM D5185m	0.0	1	<1	<1
	Magnesium	ppm	ASTM D5185m	256	504	531	476
	Calcium	ppm	ASTM D5185m	2057	1728	1744	1622
	Phosphorus	ppm	ASTM D5185m	935	859	1014	913
	Zinc	ppm	ASTM D5185m	1223	970	1256	1098
	Sulfur	ppm	ASTM D5185m	4079	2921	2870	3015
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7	22.4	20.7
	Base Number (BN)	mg KOH/g	ASTM D2896	10	9.7	10.0	10.5
	Vice @ 10000	- C+		15.0	10.0	10.0	10.0

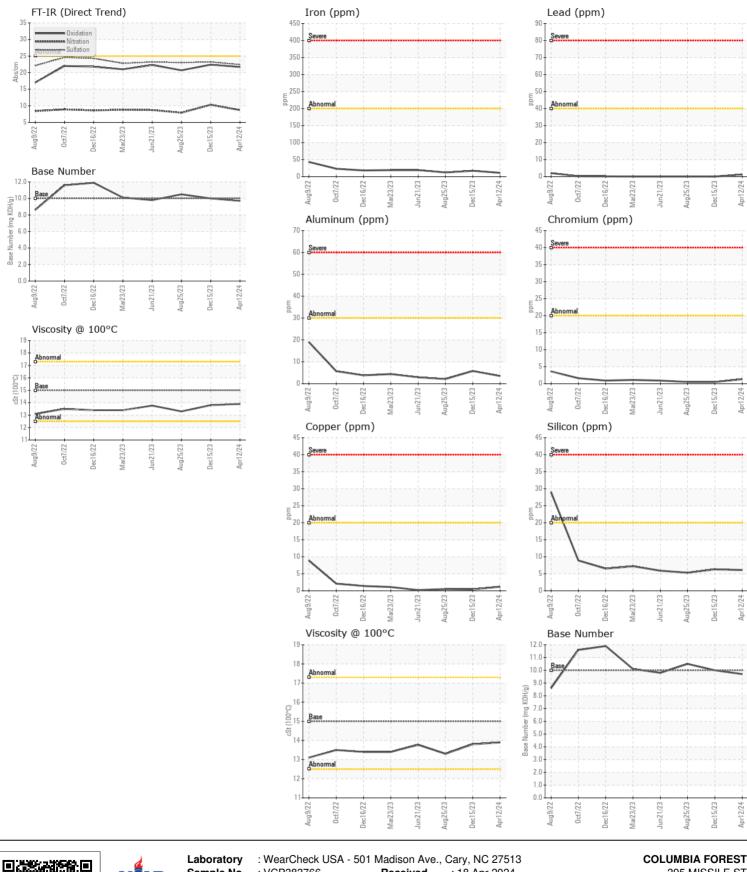
Visc @ 100°C cSt

ASTM D445 15.0

13.8

13.3

13.9



Sample No. : VCP383766 Received 395 MISSILE ST : 18 Apr 2024 PRESQUE ISLE, ME Lab Number : 06152861 Tested : 19 Apr 2024 : 19 Apr 2024 - Wes Davis US 04769 Unique Number : 10982939 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: GARY 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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (207)764-9428 F:

Contact/Location: GARY ? - COLPRE Page 2 of 2