

[5] Machine Id **VOLVO L110H 631235** Component **Diesel Engine**

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

			5-5 (6				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP438542	VCP439679	VCP429373D
	Sample Date		Client Info		09 Jul 2024	21 May 2024	17 Jan 2024
	Machine Age	hrs	Client Info		10281	12318	11636
	Oil Age	hrs	Client Info		0	500	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	N/A
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	10	49	1 32
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	0	3
	Nickel	ppm	ASTM D5185m	>10	0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>10	5	2	6
	Lead	ppm	ASTM D5185m	>20	0	0	0
	Copper	ppm	ASTM D5185m	>15	0	<1	6
	Tin	ppm	ASTM D5185m	>10	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	6	A 27
	Potassium	ppm	ASTM D5185m	>20	2	<1	3
There is no indication of any contamination in the oil.	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	8.5	10.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	21.5	20.6
	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	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		10	2	0
	Boron	ppm	ASTM D5185m	2.5	31	21	28
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0.0	0	0	5
	Molybdenum	ppm	ASTM D5185m		40	42	63
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m	256	541	410	234
	Calcium	ppm			1759	1783	1929
	Phosphorus	ppm	ASTM D5185m	935	1026	897	949
	Zinc	ppm	ASTM D5185m	1223	1231	1039	1196
	Sulfur	ppm	ASTM D5185m	4079	3737	3196	3507
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.5	20.1	17.1
	Base Number (BN)	mg KOH/g	ASTM D2896	10	10.3	9.9	7.2
						1	

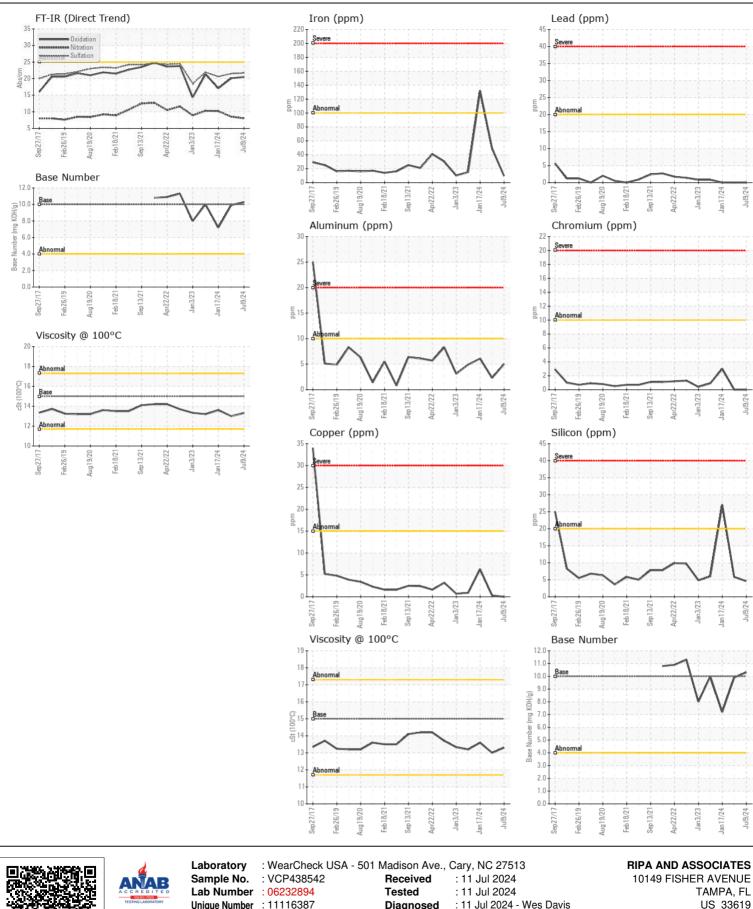
Visc @ 100°C cSt

ASTM D445 15.0

13.0

13.6

13.3



: 11 Jul 2024 - Wes Davis Unique Number : 11116387 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. PMServices@ripaconstruction.com * - 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)

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Contact/Location: PM Services ? - RIPTAM Page 2 of 2

Contact: PM Services

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