

## [LKQ TAMPA] Machine Id VOLVO L110H 632741 Diesel Engine Fluid

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

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		VCP444019	VCP454183	
	Sample Date		Client Info		23 Apr 2024	25 Jan 2024	
	Machine Age	hrs	Client Info		1028	541	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	22	32	
The aluminum level has decreased, but is still abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	1	2	
	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>2	<1	<1	
	Aluminum	ppm	ASTM D5185m	>10	<b></b> 16	<b>4</b> 2	
	Lead	ppm	ASTM D5185m	>20	1	3	
	Copper	ppm	ASTM D5185m	>15	6	13	
	Tin	ppm	ASTM D5185m	>10	3	3	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	8	13	
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	2	
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		ے <1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	20.1	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.4	0.4	
	Nitration	Abs/cm	*ASTM D7624		7.5	7.1	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	20.5	
	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	>0.1	NEG	NEG	
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m		1	3	
	Boron	ppm	ASTM D5185m	2.5	32	29	
	Barium	ppm	ASTM D5185m		4	18	
	Molybdenum	ppm	ASTM D5185m		42	44	
	Manganese	ppm	ASTM D5185m	0.0	<1	2	
	Magnesium	ppm	ASTM D5185m	256	506	744	
	Calcium	ppm	ASTM D5185m		1534	1620	
	Phosphorus	ppm	ASTM D5185m	935	987	1057	
	Zinc	ppm	ASTM D5185m	1223	1088	1288	
	Sulfur	ppm	ASTM D5185m	4079	3064	4340	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	17.1	

Base Number (BN) mg KOH/g ASTM D2896 10

ASTM D445 15.0

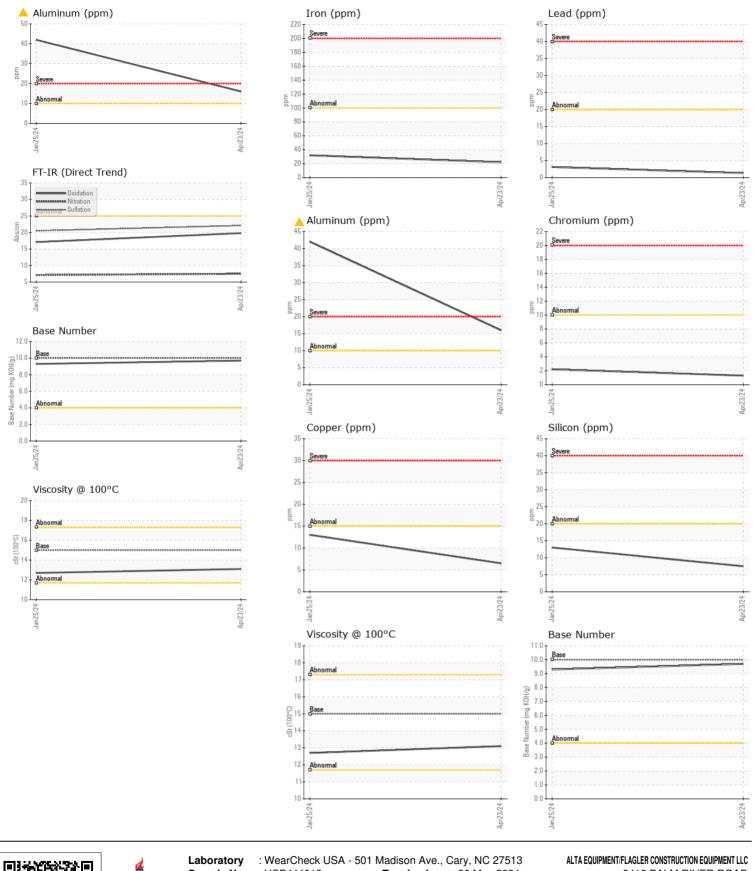
Visc @ 100°C cSt

9.3

12.7

9.7

13.1



Sample No. : VCP444019 Received 8418 PALM RIVER ROAD : 30 May 2024 Lab Number : 06194952 Tested TAMPA, FL : 31 May 2024 Unique Number : 11057075 Diagnosed : 31 May 2024 - Don Baldridge US 33619 Test Package : MOB 1 (Additional Tests: TBN) Contact: KENNY HANEY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. khaney@flaglerce.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (813)630-0077 F: (813)630-2233 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: KENNY HANEY - VOLVO0093 Page 2 of 2