

Equation (2412) Watchine Id WOLVO Component Diesel I Flud VOLVO

VOLVO L70H 623339

Diesel Engine

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

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil 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		VCP454167	VCP424190	VCP371210
	Sample Date		Client Info		15 Jun 2024	30 Sep 2023	11 Mar 2023
	Machine Age	hrs	Client Info		9741	8740	7850
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR The aluminum level is abnormal. All other component wear rates are normal.	Iron	ppm	ASTM D5185m	>200	11	8	12
	Chromium	ppm	ASTM D5185m	>20	<1	<1	1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>30	🔺 32	18	22
	Lead	ppm	ASTM D5185m	>40	0	0	<1
	Copper	ppm	ASTM D5185m	>20	0	0	1
	Tin	ppm	ASTM D5185m	>20	<1	<1	<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	7	7	7
	Potassium	ppm	ASTM D5185m		<1	0	<1
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	10.2	9.5	9.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	21.9	22.6
	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	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	1
I LOID CONDITION	Boron	ppm	ASTM D5185m	25	22	25	37
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		40	41	44
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		549	539	501
	Calcium	ppm	ASTM D5185m	2057	1795	1702	1772
	Phosphorus	ppm	ASTM D5185m		1027	1003	1058
	Zinc	ppm	ASTM D5185m		1210	1207	1244
	Sulfur	ppm	ASTM D5185m		3394	2858	2937
	Oxidation		*ASTM D7414	>25	22.8	21.8	21.7
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Base Number (BN) mg KOH/g ASTM D2896 10

ASTM D445 15.0

Visc @ 100°C cSt

9.0

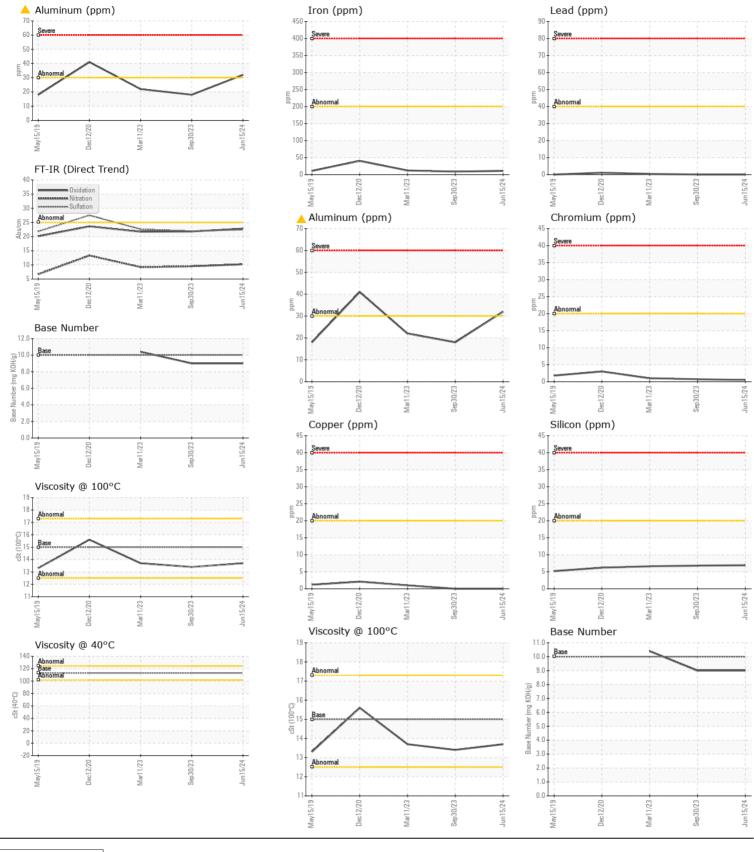
13.4

10.4

13.7

9.0

13.7



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Laboratory SIMS METAL 回續 Sample No. : VCP454167 Received 130 NORTH 12TH ST : 03 Jul 2024 : 06227137 Lab Number Tested SACRAMENTO, CA : 05 Jul 2024 Unique Number : 11110630 Diagnosed : 05 Jul 2024 - Don Baldridge US 95814 Test Package : MOB 1 (Additional Tests: TBN, KV40) Contact: EVERT 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: (916)769-7864

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

Contact/Location: EVERT ? - SIMSACCA Page 2 of 2

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