

Machine Id

VOLVO L70H 624288 onen

Diesel Engine

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. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP437537	VCP425009	VCP355080
	Sample Date		Client Info		21 Jun 2024	16 Aug 2023	20 Jun 2022
	Machine Age	hrs	Client Info		3537	2287	925
	Oil Age	hrs	Client Info		0	0	300
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				ATTENTION	ATTENTION	NORMAL
WEAR	Iron	ppm	ASTM D5185m	<u>_200</u>	8	14	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		۰ 1	1	1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	20	0	<1	0
	Silver	ppm	ASTM D5185m	~2	0	0	0
	Aluminum	ppm	ASTM D5185m		5	6	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		۰ <1	2	<1
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6	5	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	2	2
	Fuel	%	ASTM D3524	>6.0	<1.0	0.3	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.8	6.3	6.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	17.0	19.1
	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		2	2	<1
	Boron	ppm	ASTM D5185m	2.5	26	<1	6
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	0.7	41	52	61
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	256	514	378	393
	Calcium	ppm	ASTM D5185m	2057	1726	1692	1726
	Phosphorus	ppm	ASTM D5185m	935	940	969	1028
	Zinc	ppm	ASTM D5185m	1223	1224	1232	1242
	Sulfur	ppm	ASTM D5185m	4079	2950	3761	3951
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	11.8	14.6
	Base Number (BN)	mg KOH/g	ASTM D2896	10	10.2	7.1	9.9
		0.	AOTH DAAF	4 5 0			10.0

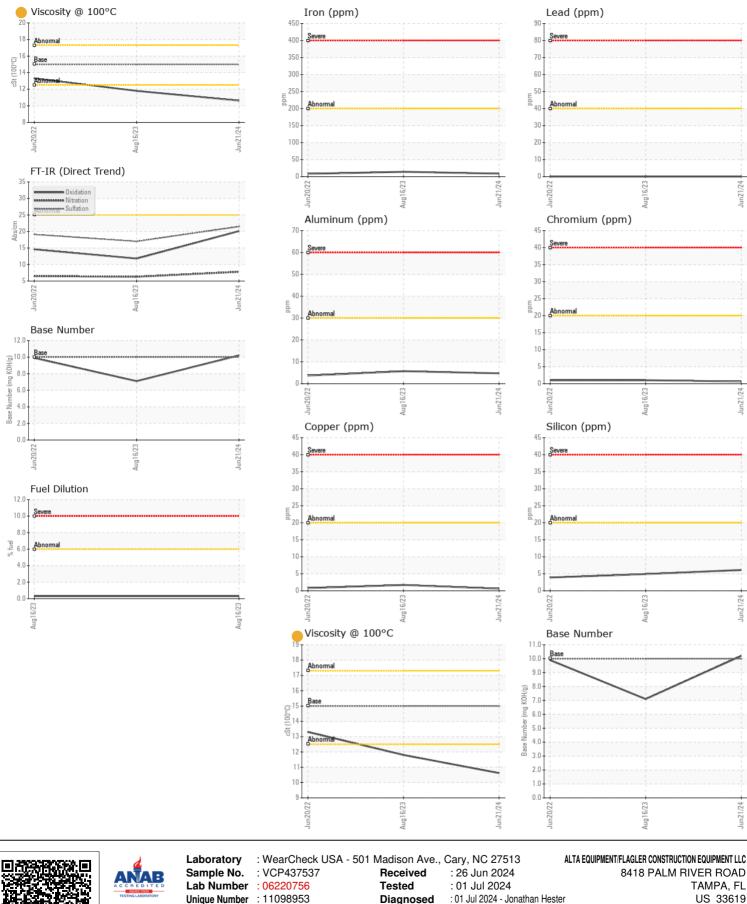
Visc @ 100°C cSt

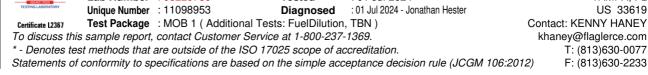
ASTM D445 15.0

10.62

13.3

11.8





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