

Machine Id VOLVO L110H 05632247 Component Diesel Engine Fluid VALVOLINE 15W40 (--- GAL)

VALVOLINE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMINE TEOT	Sample Number		Client Info		VCP453895	VCP438764	VCP436454
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		11 Jun 2024	10 May 2024	09 Apr 2024
	Machine Age	hrs	Client Info		7473	7201	6919
	Oil Age	hrs	Client Info		0	0	250
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	<1	6	4
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	3	0
	Nickel	ppm	ASTM D5185m	>10	0	3	0
	Titanium	ppm	ASTM D5185m		0	2	0
	Silver	ppm	ASTM D5185m	>2	0	3	0
	Aluminum	ppm	ASTM D5185m	>10	3	6	2
	Lead	ppm	ASTM D5185m	>20	0	3	0
	Copper	ppm	ASTM D5185m	>15	0	3	<1
	Tin	ppm	ASTM D5185m	>10	0	3	1
	Vanadium	ppm	ASTM D5185m		0	2	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4	8	4
CONTAINING HON	Potassium	ppm	ASTM D5185m		2	4	<1
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		0.4	▲ 6.7	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	5.8	5.8	5.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	15.5	15.6	15.6
	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		<1	3	<1
	Boron	ppm	ASTM D5185m	39	41	36	31
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	1	0	2	0
	Molybdenum	ppm	ASTM D5185m	49	71	47	22
	Manganese	ppm	ASTM D5185m	1	0	2	0
	Magnesium	ppm	ASTM D5185m	616	234	167	150
	Calcium	ppm	ASTM D5185m		1772	1879	2069
	Phosphorus	ppm	ASTM D5185m	899	773	788	792
	Zinc	ppm	ASTM D5185m	1069	995	922	944
	0.17		LOTH DELOF	0004		0000	0040

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 2624

ASTM D445

13.6

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 6.9

3398

8.9

6.5

🔺 11.9

3848

6.9

8.9

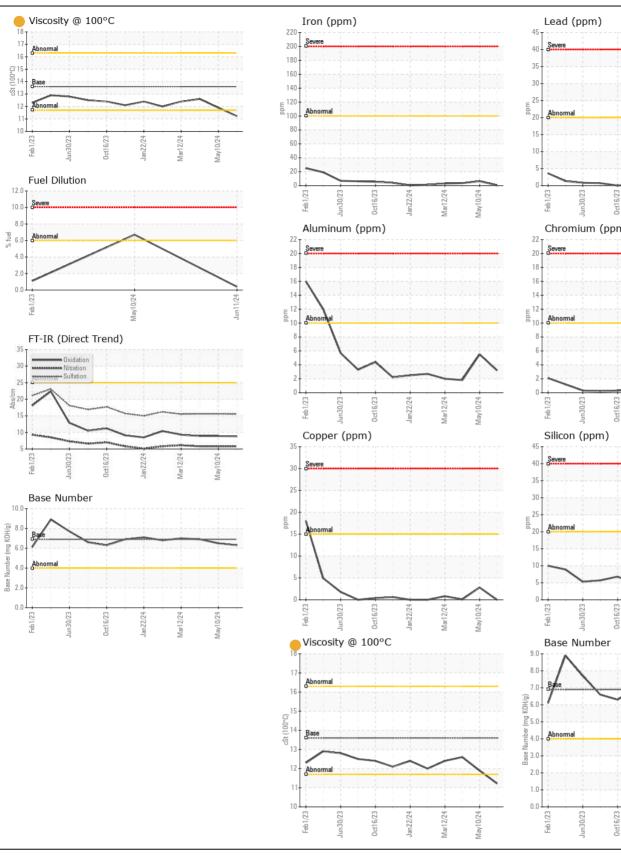
12.6

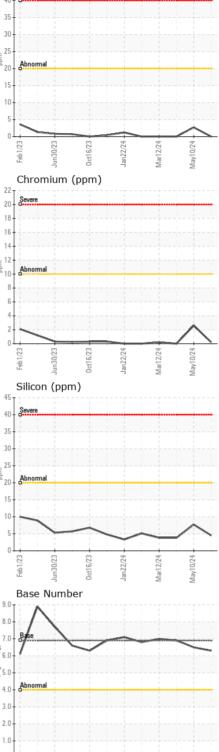
3013

8.8

6.3

11.22





CITY CARTING Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : VCP453895 Received 221 OLD GATE LN : 26 Jun 2024 Ë Lab Number : 06220765 Tested MILFORD, CT : 01 Jul 2024 Unique Number : 11098962 : 01 Jul 2024 - Jonathan Hester US 06460 Diagnosed Test Package : MOB 1 (Additional Tests: PercentFuel, TBN) Contact: TAVINS BANKS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. tavins@citycart.net * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (203)223-3885 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: TAVINS BANKS - CITMILCON Page 2 of 2

Jan22/24

Mar12/24

May10/24