

[2007] Machine Id VOLVO L90G 3117 Component Diesel Engine

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

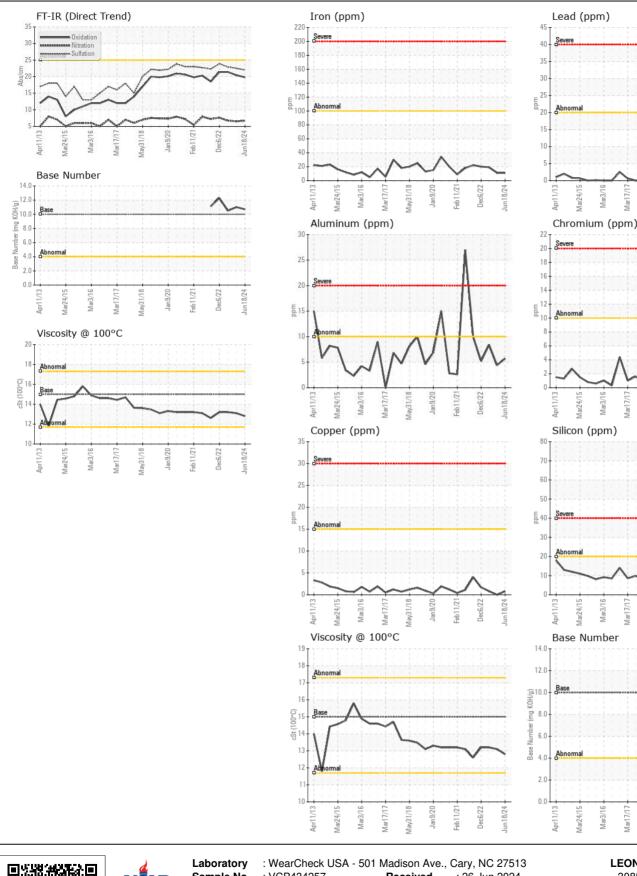
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP434257	VCP385012	VCP382942
Resample at the next service interval to monitor.	Sample Date		Client Info		18 Jun 2024	17 Oct 2023	09 Jun 2023
	Machine Age	hrs	Client Info		13585	13160	12700
	Oil Age	hrs	Client Info		0	0	500
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
				4.00			40
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		11	11	19
	Chromium	ppm	ASTM D5185m		<1	- 1	2
	Nickel	ppm	ASTM D5185m	>10	0	<1	<1
	Titanium	ppm	ASTM D5185m	0	0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		6	4	8
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		<1	0	<1
	Tin Vanadium	ppm	ASTM D5185m	>10	<1 0	0	<1
	White Metal	ppm scalar	ASTM D5185m *Visual	NONE	NONE	NONE	< I NONE
	Yellow Metal		*Visual	NONE	NONE	NONE	NONE
		scalar	visuai	INOINE		NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	13	15	19
	Potassium	ppm	ASTM D5185m	>20	2	1	2
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	0.4	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.5	6.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	22.5	22.9
	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	Codium				0	3	3
	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	25	2 51	45	59
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	43	0
	Molybdenum	ppm ppm	ASTM D5185m		40	41	42
	Manganese	ppm	ASTM D5185m		40	<1	<1
	Magnesium	ppm	ASTM D5185m		508	549	531
	Calcium	ppm	ASTM D5185m		1707	1715	1771
	Phosphorus	ppm	ASTM D5185m		918	978	987
	Zinc	ppm	ASTM D5185m		1174	1216	1214
	Sulfur	ppm	ASTM D5185m		2899	2951	3759
	Oxidation	Abs/.1mm	*ASTM D510511		19.8	20.4	21.4
	Base Number (BN)		ASTM D7414 ASTM D2896		10.7	11.0	10.5
		- Ot		15.0	10.0	10.4	10.0

Visc @ 100°C cSt ASTM D445 15.0

13.1

13.2

12.8





Jan 9/20

Feb11/21 Dec6/22 Jun 18/24

Jan 9/20

eb11/2

lav31/18

Aav31/18

Aar17/1

lec6/77

Aar17



Test Package : MOB 1 (Additional Tests: TBN) 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

Diagnosed

Tested

: 26 Jun 2024

: 27 Jun 2024

: 27 Jun 2024 - Wes Davis

Report Id: LEOMAD [WUSCAR] 06220779 (Generated: 06/29/2024 01:15:48) Rev: 1

Sample No.

Lab Number : 06220779

Unique Number : 11098976

: VCP434257

Contact/Location: LARRY SCHRADE - LEOMAD Page 2 of 2

Mar17/17 Aav31/18