

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Area [W02008220] Machine Id VOLVO L90H 623044 Component Diesel Engine Fluid MOBIL 15W40 (5 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (Customer Sample Comment: W02008220)	Sample Number		Client Info		ML0001009	WC0886310	VCP425212
	Sample Date		Client Info		18 Apr 2024	16 Jan 2024	25 Sep 2023
Comment: WO2000220)	Machine Age	hrs	Client Info		14505	14068	13539
	Oil Age	hrs	Client Info		500	500	500
	Filter Age	hrs	Client Info		500	500	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	5	7	7
	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>10	2	3	<1
	Lead	ppm	ASTM D5185m	>20	0	0	1
	Copper	ppm	ASTM D5185m	>15	<1	<1	<1
	Tin	ppm	ASTM D5185m	>10	0	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6	7	7
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	1	0
	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	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	8.2	8.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	21.9	21.6
	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	>118	1	2	1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		301	269	229
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		117	122	122
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		603	686	637
	Calcium	ppm	ASTM D5185m		1477	1551	1507
	Phosphorus	ppm	ASTM D5185m		650	791	715
	Zinc	ppm	ASTM D5185m		758	924	872
	Sulfur	ppm	ASTM D5185m		2617	2861	2512
	Ovidation	Ale e / due une		05	16.4	10.7	17.0

Oxidation

Visc @ 100°C cSt

Abs/.1mm *ASTM D7414 >25

ASTM D445

Base Number (BN) mg KOH/g ASTM D2896

16.7

7.7

12.7

17.0

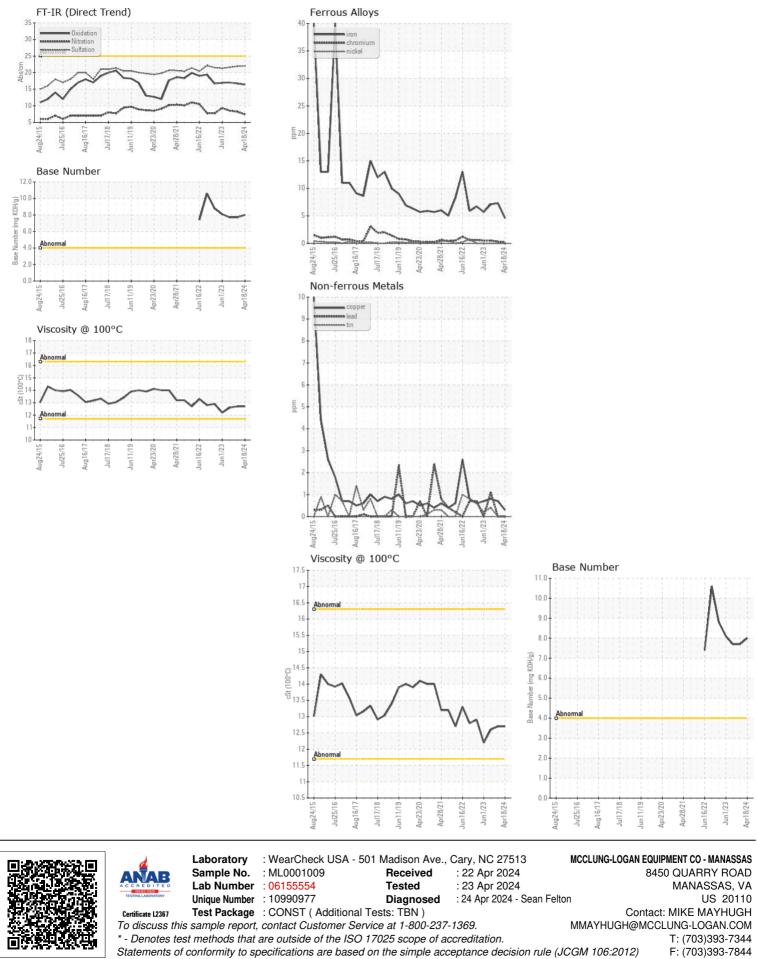
7.7

12.6

16.4

8.0

12.7



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

Submitted By: DARRELL ANDES Page 2 of 2