

WEAR	NORMA
CONTAMINATION	NORMA
FLUID CONDITION	ATTENTI

ON

1257

15.2

5.9

13.2

3312

1279

4043

14.5

7.1

13.1

1025

3166

15.7

8.5

11.9

Area [W/O 10848] VOLVO L90H 623915 **Diesel Engine** CHEVRON 15W40 (5 GAL)

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		ML0001276	ML0000067	VCP413935
	Sample Date		Client Info		28 May 2024	18 Mar 2024	18 Oct 2023
	Machine Age	hrs	Client Info		11224	10883	10514
	Oil Age	hrs	Client Info		341	369	0
	Filter Age	hrs	Client Info		341	369	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m		3	6	2
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	0
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m	-	<1	2	3
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		4	6	3
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		0	<1	<1
	Tin	ppm	ASTM D5185m	>10	<1	0	0
	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	<u>~20</u>	5	4	5
CONTRIMINATION	Potassium	ppm	ASTM D5185m		0	0	0
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		0 2.1	<1.0	<1.0
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624		6.5	6.2	7.1
	Sulfation	Abs/.1mm	*ASTM D7415		20.6	20.8	21.0
	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		*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>50	1	2	3
The city increasing is lower than normal. The PN regult indicates that	Boron	ppm	ASTM D5185m		205	380	336
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		83	92	85
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		558	412	409
	Calcium	ppm	ASTM D5185m		1416	1442	1350
	Phosphorus	ppm	ASTM D5185m		895	1071	977
	7:		AOTH DEADE		1005	1070	1057

Zinc

Sulfur

Oxidation

Visc @ 100°C

ppm

Base Number (BN) mg KOH/g ASTM D2896

cSt

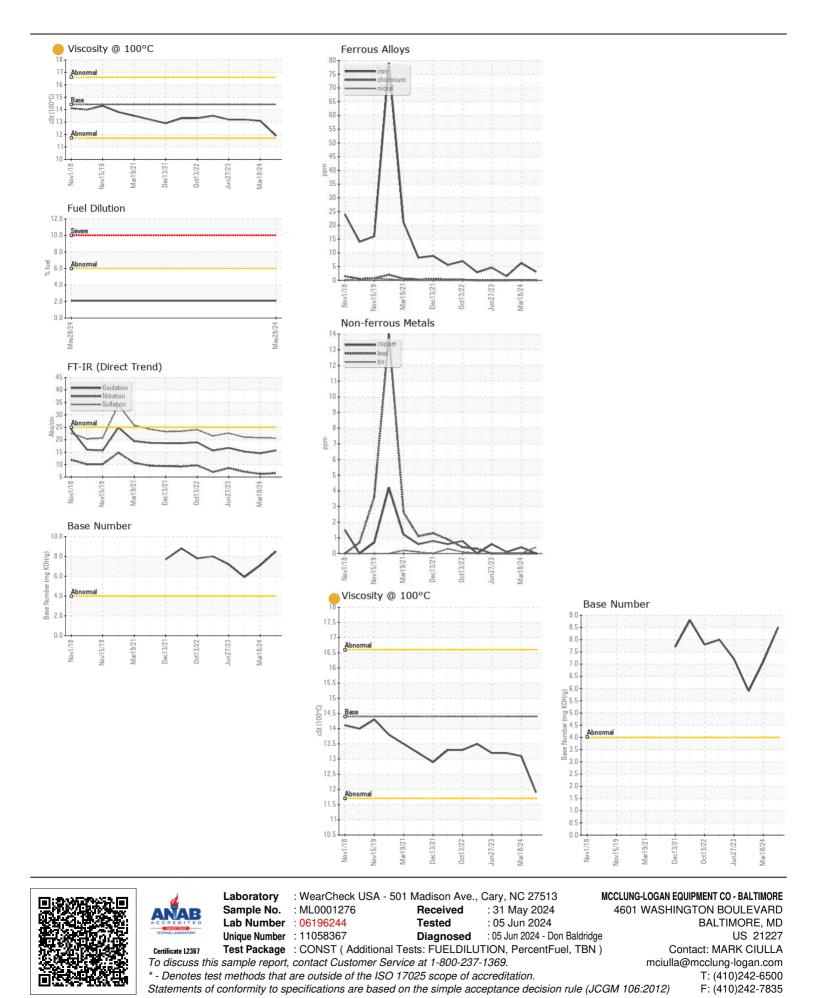
ASTM D5185m

ASTM D445

14.4

Abs/.1mm *ASTM D7414 >25

ppm ASTM D5185m



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