



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**[W/O10388]**  
Machine Id  
**VOLVO L70H 623834**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON 15W40 (5 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0000034</b>	VCP388535	VCP423087
Sample Date		Client Info		<b>21 Feb 2024</b>	08 Nov 2023	22 May 2023
Machine Age	hrs	Client Info		<b>2497</b>	1978	1503
Oil Age	hrs	Client Info		<b>519</b>	0	0
Filter Age	hrs	Client Info		<b>519</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>9</b>	7	9
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>5</b>	3	4
Lead	ppm	ASTM D5185m	>40	<b>0</b>	2	0
Copper	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

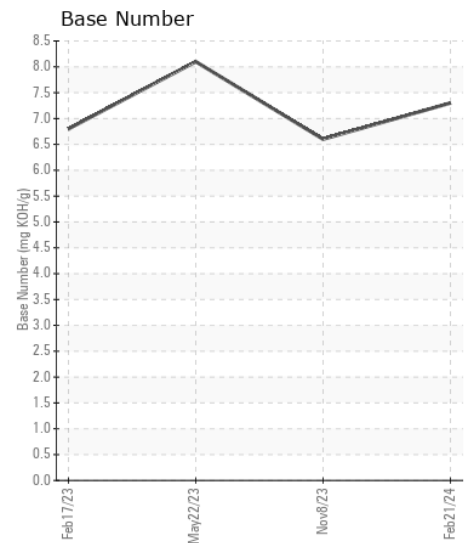
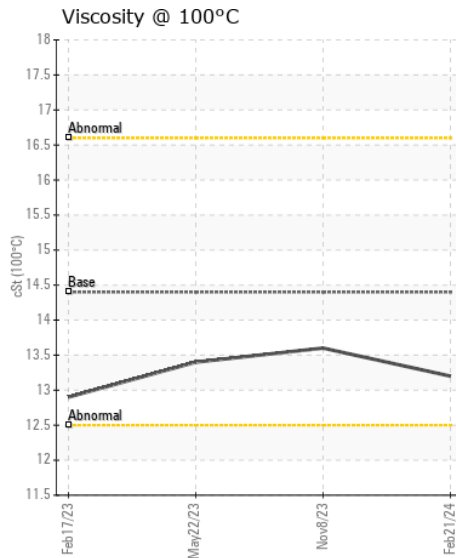
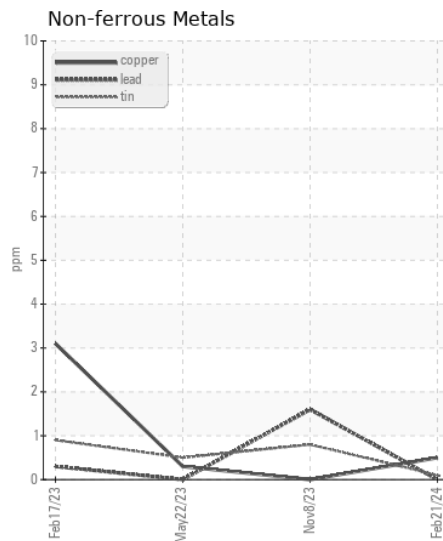
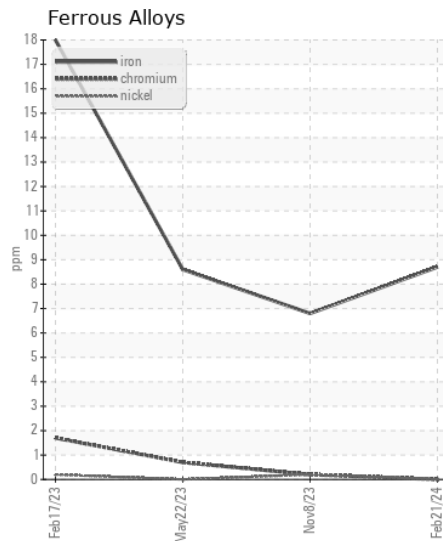
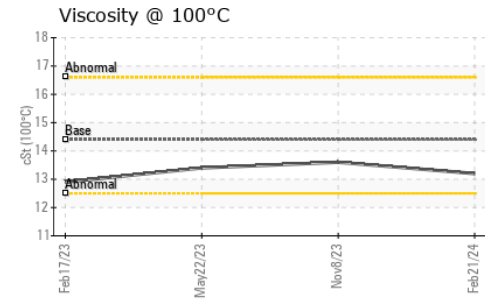
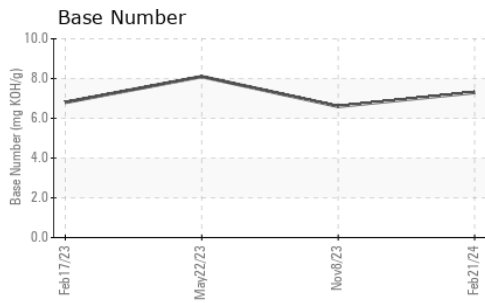
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>5</b>	6	6
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	1
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.8</b>	6.0	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.9</b>	21.0	21.1
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>50	<b>1</b>	0	1
Boron	ppm	ASTM D5185m		<b>426</b>	427	417
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>95</b>	95	94
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>415</b>	438	493
Calcium	ppm	ASTM D5185m		<b>1383</b>	1405	1454
Phosphorus	ppm	ASTM D5185m		<b>1043</b>	1148	980
Zinc	ppm	ASTM D5185m		<b>1196</b>	1345	1156
Sulfur	ppm	ASTM D5185m		<b>3181</b>	3487	3726
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.8</b>	14.9	14.7
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.3</b>	6.6	8.1
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.2</b>	13.6	13.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : ML0000034

**Lab Number** : 06097559

**Unique Number** : 10890412

**Test Package** : CONST ( Additional Tests: TBN )

**Received** : 22 Feb 2024

**Tested** : 23 Feb 2024

**Diagnosed** : 24 Feb 2024 - Don Baldrige

**MCCLUNG-LOGAN EQUIPMENT CO - BALTIMORE**

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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)