



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[A11896]**  
Machine Id  
**VOLVO L60H 622780**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP430648</b>	VCP431248	VCP421709
Sample Date		Client Info		<b>17 Jan 2024</b>	13 Nov 2023	09 Aug 2023
Machine Age	hrs	Client Info		<b>5935</b>	5415	4560
Oil Age	hrs	Client Info		<b>500</b>	500	500
Filter Age	hrs	Client Info		<b>0</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	>100	<b>8</b>	25	33
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	2
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	2
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	4	8
Lead	ppm	ASTM D5185m	>20	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	>15	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

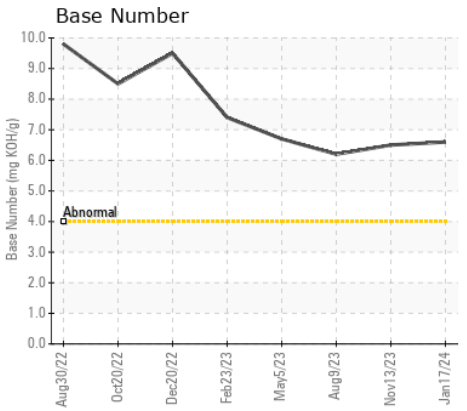
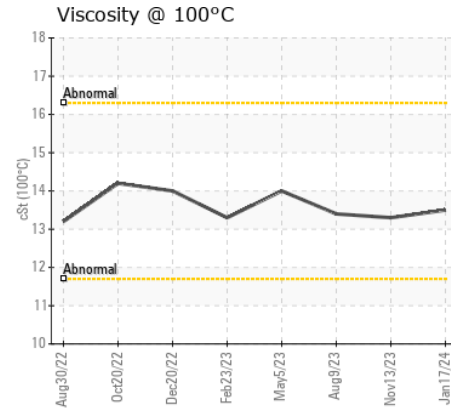
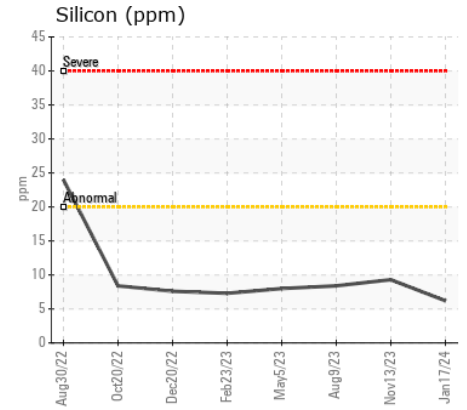
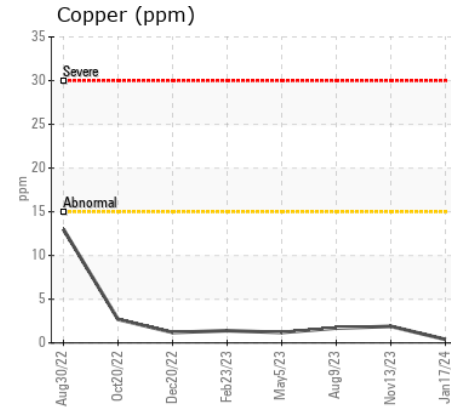
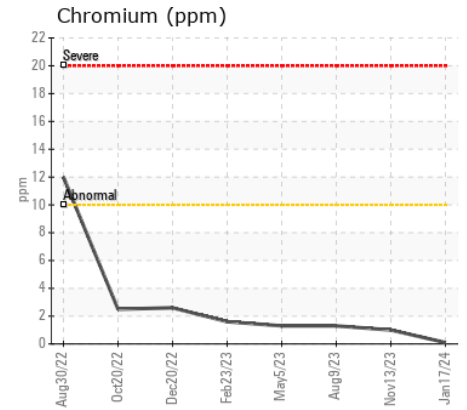
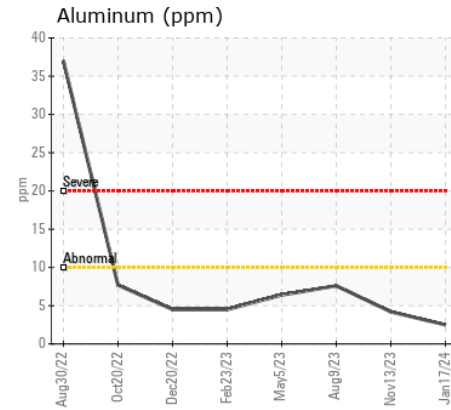
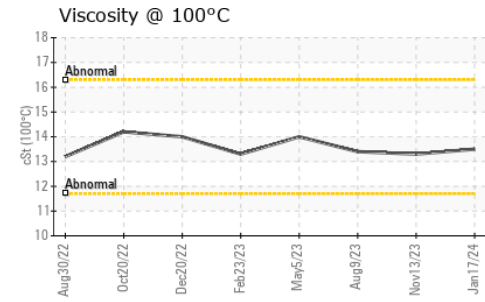
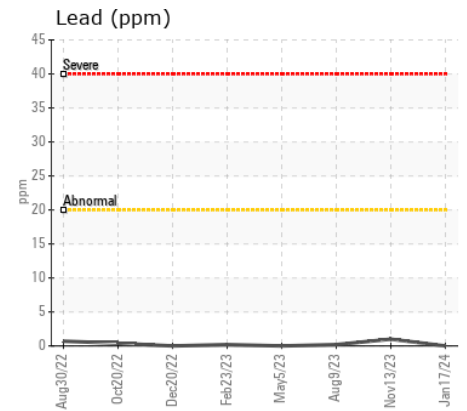
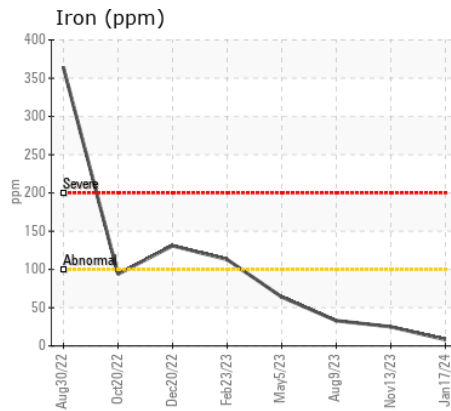
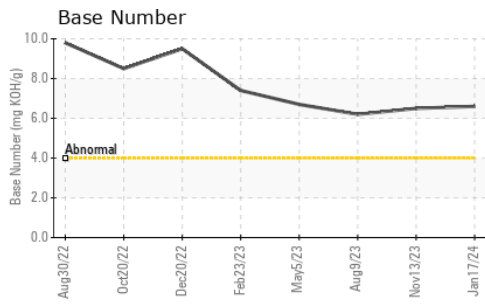
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>6</b>	9	8
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	2
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.7</b>	7.7	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.5</b>	19.1	18.6
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	>0.1	<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	>118	<b>&lt;1</b>	2	0
Boron	ppm	ASTM D5185m		<b>6</b>	5	3
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>9</b>	30	13
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>146</b>	426	117
Calcium	ppm	ASTM D5185m		<b>2110</b>	1848	2205
Phosphorus	ppm	ASTM D5185m		<b>921</b>	940	890
Zinc	ppm	ASTM D5185m		<b>1078</b>	1202	1087
Sulfur	ppm	ASTM D5185m		<b>3363</b>	3286	3708
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>10.1</b>	12.6	10.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.6</b>	6.5	6.2
Visc @ 100°C	cSt	ASTM D445		<b>13.5</b>	13.3	13.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP430648 **Received** : 12 Feb 2024  
**Lab Number** : 06085796 **Tested** : 13 Feb 2024  
**Unique Number** : 10873241 **Diagnosed** : 13 Feb 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**COVANTA METAL MARKETING LLC**  
 500 MIDDLE DR  
 FAIRLESS HILLS, PA  
 US 19030  
 Contact: J.P.

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)

T:  
F: