



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO L90H 626131
Component
Diesel Engine
Fluid
MOBIL 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 1st 1000 hour service)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0867660	VCP416214	---
Sample Date		Client Info		17 Jan 2024	26 May 2023	---
Machine Age	hrs	Client Info		1137	451	---
Oil Age	hrs	Client Info		500	500	---
Filter Age	hrs	Client Info		500	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	175	245	---
Chromium	ppm	ASTM D5185m	>20	3	7	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>30	6	16	---
Lead	ppm	ASTM D5185m	>40	0	2	---
Copper	ppm	ASTM D5185m	>20	2	8	---
Tin	ppm	ASTM D5185m	>20	1	3	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

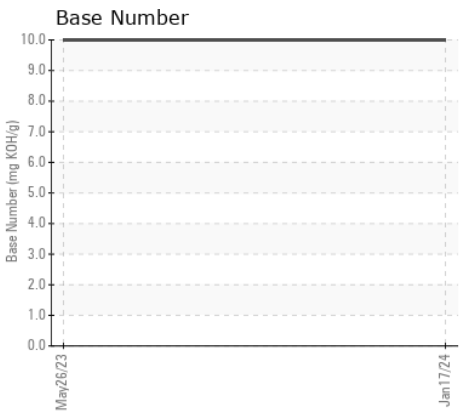
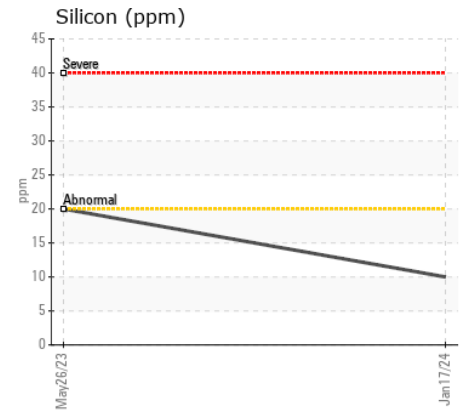
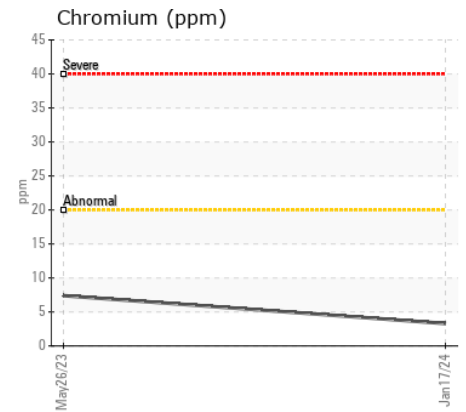
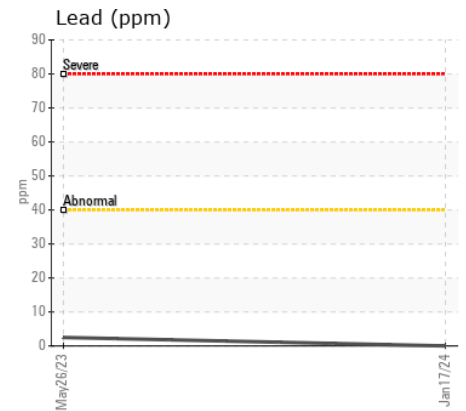
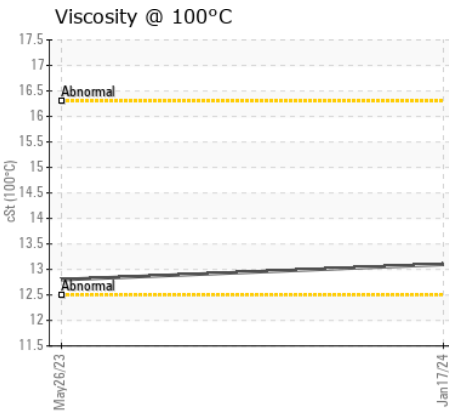
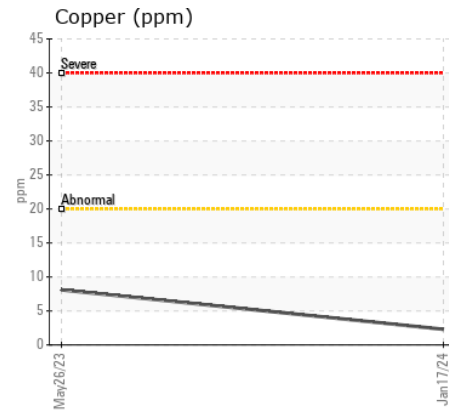
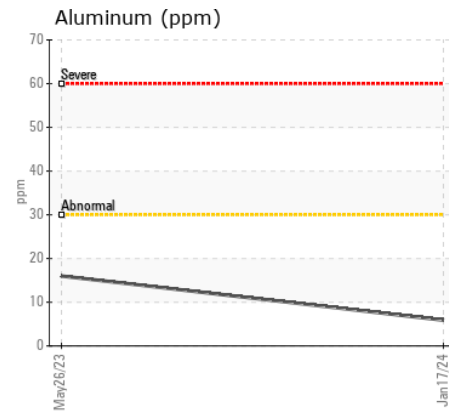
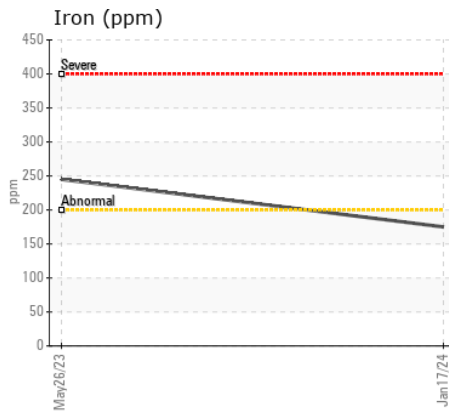
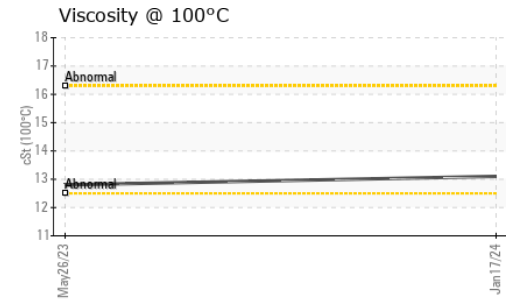
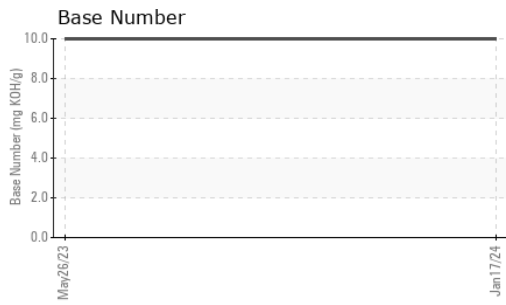
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	10	20	---
Potassium	ppm	ASTM D5185m	>20	<1	3	---
Fuel		WC Method	>6.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	8.1	7.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	21.8	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	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	4	4	---
Boron	ppm	ASTM D5185m		42	57	---
Barium	ppm	ASTM D5185m		3	0	---
Molybdenum	ppm	ASTM D5185m		39	40	---
Manganese	ppm	ASTM D5185m		3	8	---
Magnesium	ppm	ASTM D5185m		560	646	---
Calcium	ppm	ASTM D5185m		1620	1676	---
Phosphorus	ppm	ASTM D5185m		962	1009	---
Zinc	ppm	ASTM D5185m		1135	1202	---
Sulfur	ppm	ASTM D5185m		2849	4248	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.9	18.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		10.0	10.0	---
Visc @ 100°C	cSt	ASTM D445		13.1	12.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0867660 **Received** : 18 Jan 2024
Lab Number : 06064799 **Diagnosed** : 21 Jan 2024
Unique Number : 10836181 **Diagnostician** : Don Baldrige
Test Package : MOBCE (Additional Tests: TBN)

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)

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