



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL



Area
[470397]
Machine Id
VOLVO A30G 742550
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP441538	VCP315989	---
Sample Date		Client Info		07 Feb 2024	29 Jun 2021	---
Machine Age	hrs	Client Info		3960	1310	---
Oil Age	hrs	Client Info		0	500	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	23	8	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>2	0	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>25	2	<1	---
Lead	ppm	ASTM D5185m	>40	<1	<1	---
Copper	ppm	ASTM D5185m	>330	2	15	---
Tin	ppm	ASTM D5185m	>15	2	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

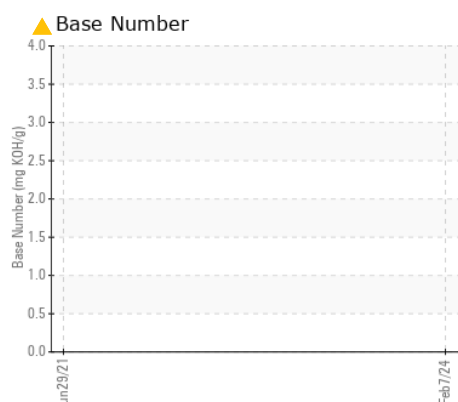
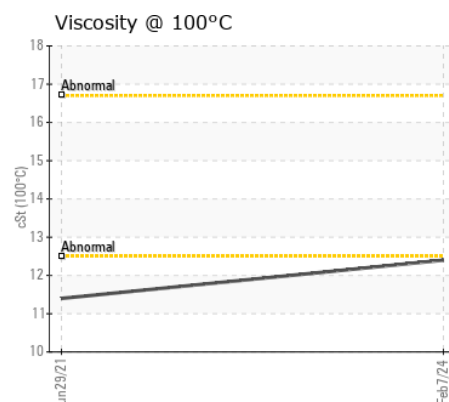
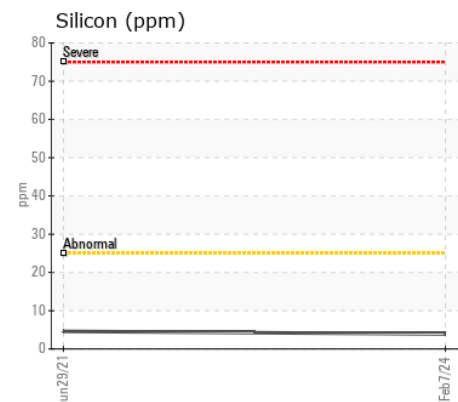
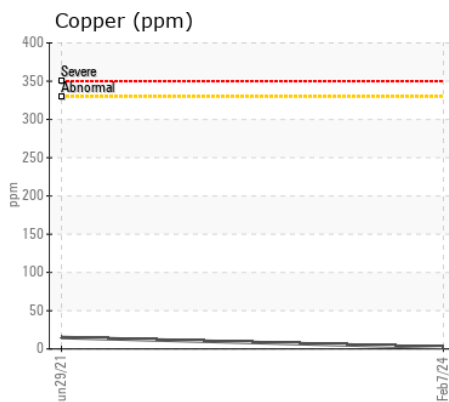
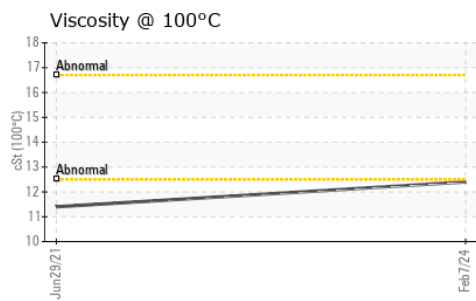
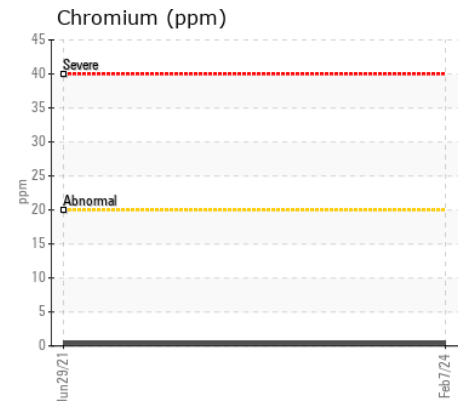
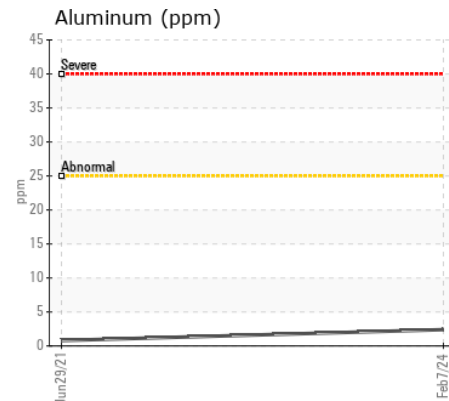
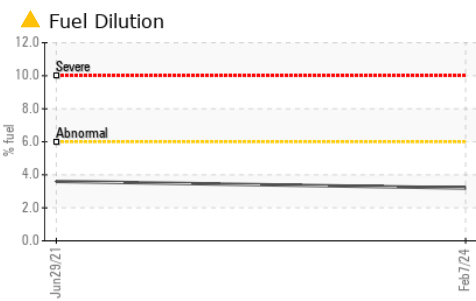
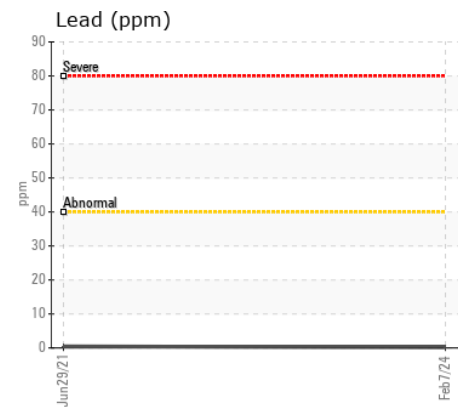
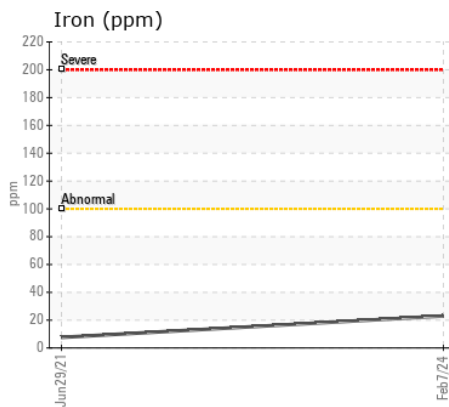
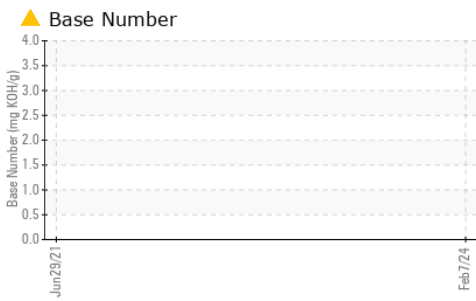
Light fuel dilution occurring.

Silicon	ppm	ASTM D5185m	>25	4	5	---
Potassium	ppm	ASTM D5185m	>20	<1	0	---
Fuel	%	ASTM D3524	>6.0	▲ 3.2	▲ 3.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	1.3	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	10.2	8.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	24	---
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 level is low. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	2	---
Boron	ppm	ASTM D5185m		9	22	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		83	41	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		111	542	---
Calcium	ppm	ASTM D5185m		1972	1728	---
Phosphorus	ppm	ASTM D5185m		959	975	---
Zinc	ppm	ASTM D5185m		1200	1093	---
Sulfur	ppm	ASTM D5185m		3485	2739	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	20.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 3.9	---	---
Visc @ 100°C	cSt	ASTM D445		12.4	11.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP441538 **Received** : 08 Feb 2024
Lab Number : 06084152 **Tested** : 13 Feb 2024
Unique Number : 10871597 **Diagnosed** : 13 Feb 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: PercentFuel, TBN)

FREDERICK DERR AND COMPANY
 PO BOX 2719
 SARASOTA, FL
 US 34230
 Contact: ROBERT TENNANT
 ROBERT@FREDERICKDERRCOMPANY.COM
 T: (941)355-8575
 F:

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)