



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
VOLVO VAH 600 5634
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0864490	WC0808330	---
Sample Date		Client Info		19 Apr 2024	19 Jun 2023	---
Machine Age	kms	Client Info		97187	32562	---
Oil Age	kms	Client Info		0	32000	---
Filter Age	kms	Client Info		0	32000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	27	71	---
Chromium	ppm	ASTM D5185(m)	>20	<1	3	---
Nickel	ppm	ASTM D5185(m)	>2	4	4	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	8	27	---
Lead	ppm	ASTM D5185(m)	>40	<1	4	---
Copper	ppm	ASTM D5185(m)	>330	45	134	---
Tin	ppm	ASTM D5185(m)	>15	1	7	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

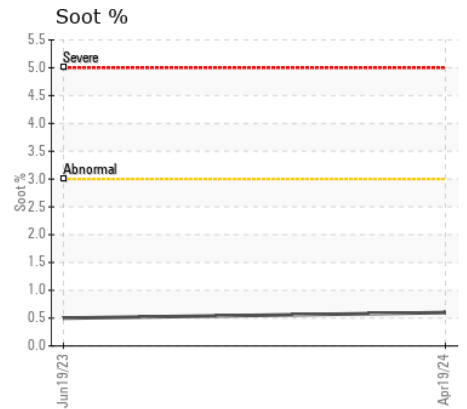
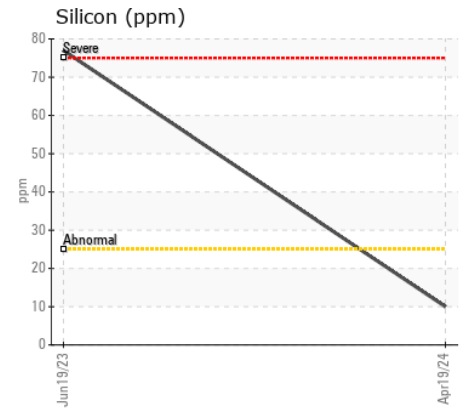
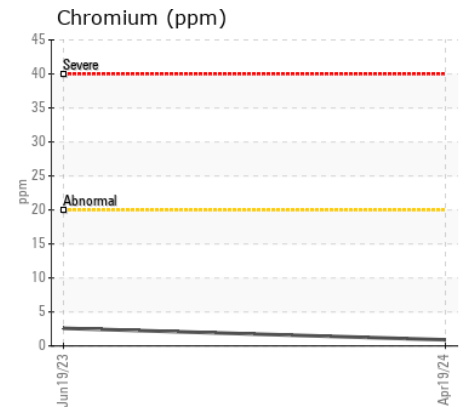
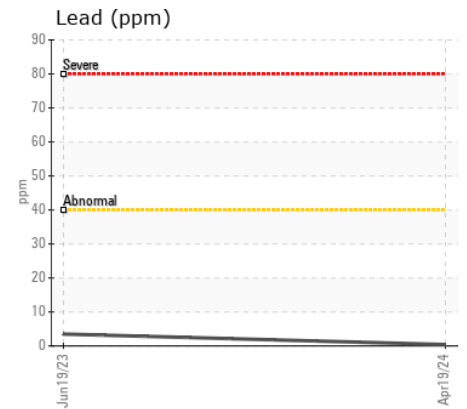
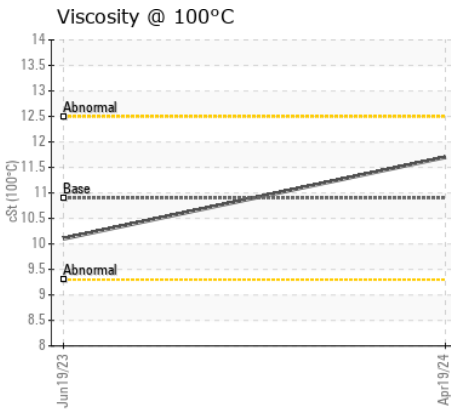
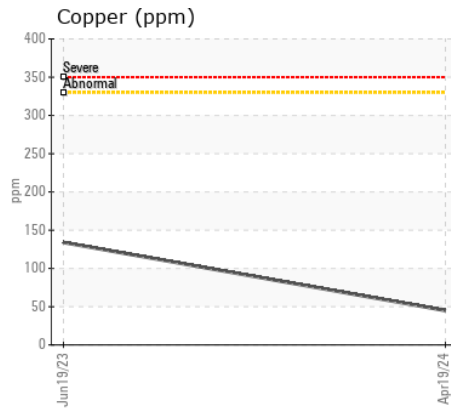
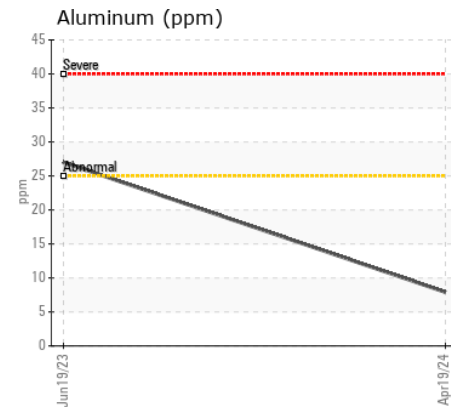
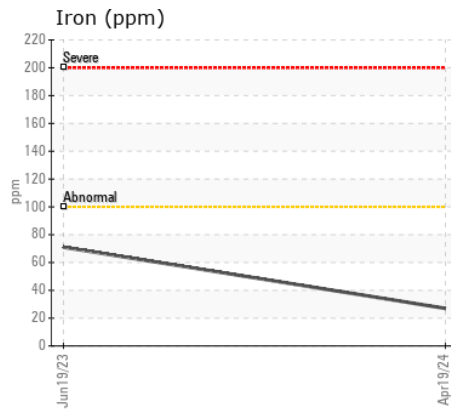
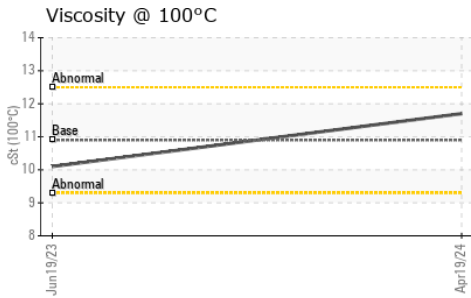
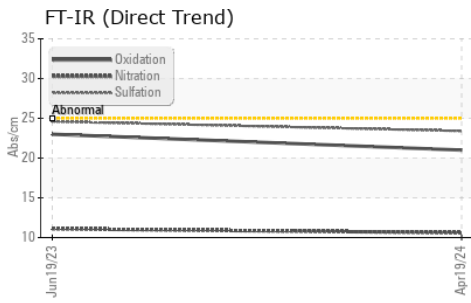
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	10	77	---
Potassium	ppm	ASTM D5185(m)	>20	13	65	---
Fuel		WC Method	>6.0	<1.0	0.7	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.6	0.5	---
Nitration	Abs/cm	ASTM D7624*	>20	10.6	11.1	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.4	24.6	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	4	---
Boron	ppm	ASTM D5185(m)	250	23	96	---
Barium	ppm	ASTM D5185(m)	10	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	100	34	103	---
Manganese	ppm	ASTM D5185(m)		1	6	---
Magnesium	ppm	ASTM D5185(m)	450	466	604	---
Calcium	ppm	ASTM D5185(m)	3000	1735	1502	---
Phosphorus	ppm	ASTM D5185(m)	1150	724	678	---
Zinc	ppm	ASTM D5185(m)	1350	881	723	---
Sulfur	ppm	ASTM D5185(m)	4250	2004	1814	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.0	23.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.7	▲ 10.1	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0864490 **Received** : 23 Apr 2024
Lab Number : 02630908 **Tested** : 23 Apr 2024
Unique Number : 5772061 **Diagnosed** : 23 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.