



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
5307

Component
Diesel Engine

Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP392494	VCP298111	---
Sample Date		Client Info		02 Apr 2024	28 Aug 2021	---
Machine Age	hrs	Client Info		13796	10039	---
Oil Age	hrs	Client Info		500	500	---
Filter Age	hrs	Client Info		0	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 D5185(m)	>200	7	6	---
Chromium	ppm	ASTM D5185(m)	>20	0	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>30	2	2	---
Lead	ppm	ASTM D5185(m)	>40	<1	<1	---
Copper	ppm	ASTM D5185(m)	>20	3	<1	---
Tin	ppm	ASTM D5185(m)	>20	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

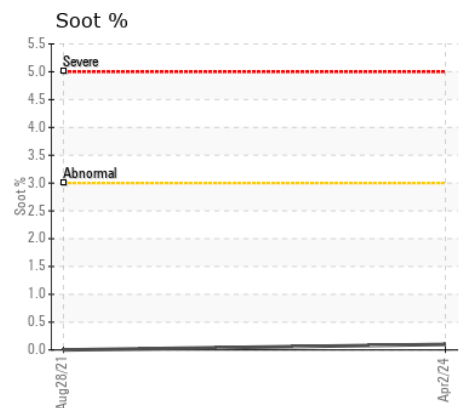
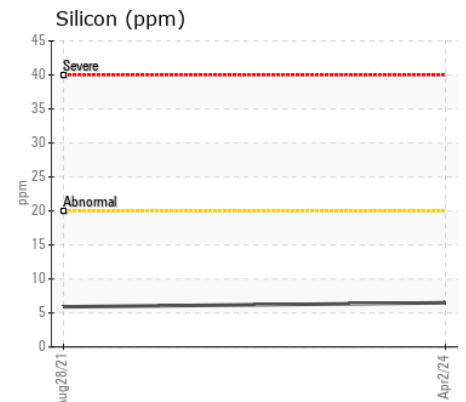
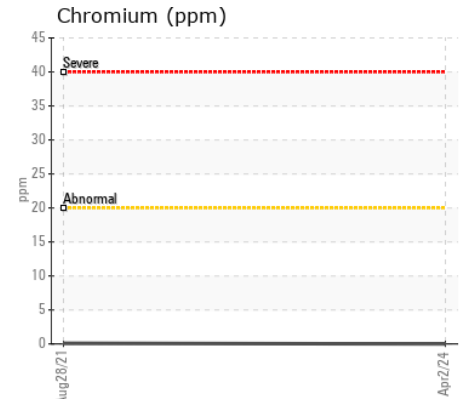
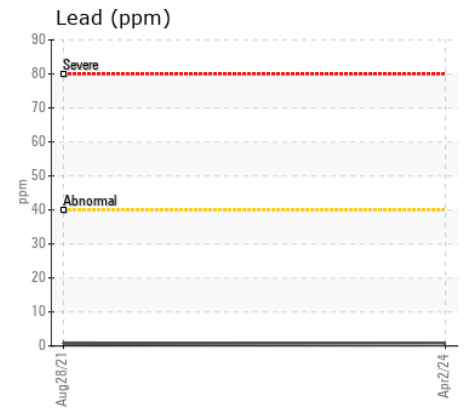
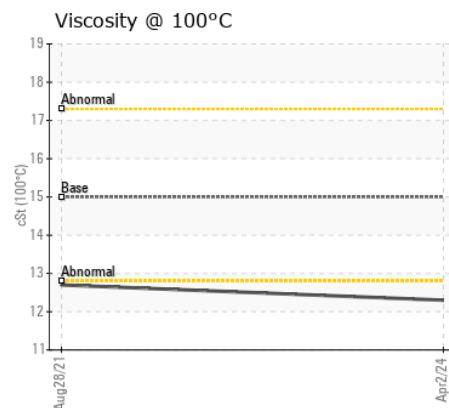
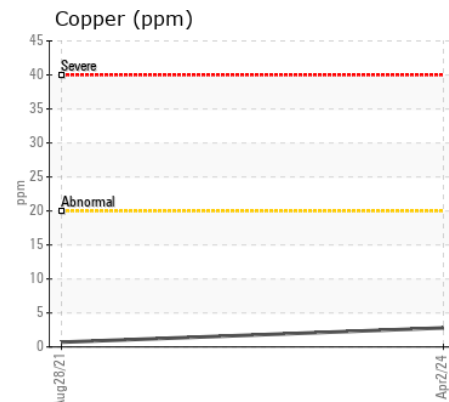
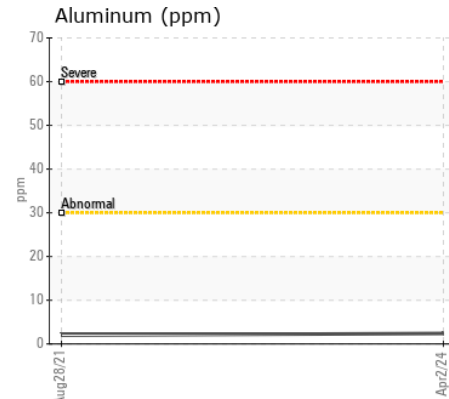
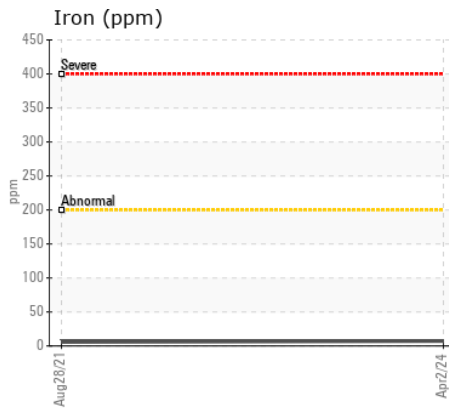
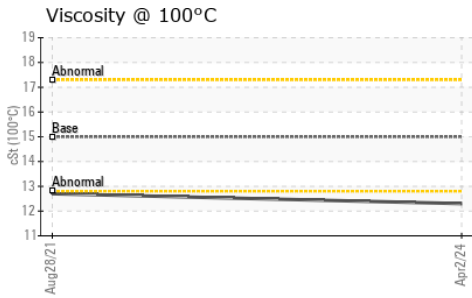
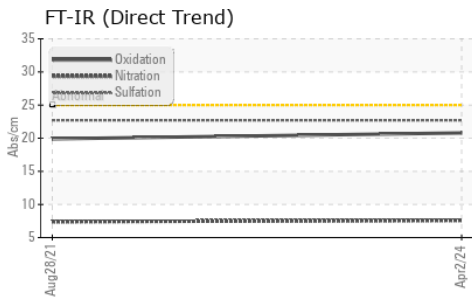
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	6	6	---
Potassium	ppm	ASTM D5185(m)	>20	<1	1	---
Fuel		WC Method	>6.0	<1.0	2.8	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.1	0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.6	7.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.7	22.7	---
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	2	---
Boron	ppm	ASTM D5185(m)	2.5	41	26	---
Barium	ppm	ASTM D5185(m)	0.0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0.7	39	32	---
Manganese	ppm	ASTM D5185(m)	0.0	<1	<1	---
Magnesium	ppm	ASTM D5185(m)	256	488	541	---
Calcium	ppm	ASTM D5185(m)	2057	1650	1520	---
Phosphorus	ppm	ASTM D5185(m)	935	871	922	---
Zinc	ppm	ASTM D5185(m)	1223	1043	1058	---
Sulfur	ppm	ASTM D5185(m)	4079	2323	2303	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.8	19.9	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	12.3	12.7	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP392494 **Received** : 22 Apr 2024
Lab Number : 02630548 **Tested** : 22 Apr 2024
Unique Number : 5763680 **Diagnosed** : 22 Apr 2024 - Wes Davis
Test Package : MOB 1

GREAT WEST EQUIPMENT
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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.