



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[8000395476]
Machine Id
VOLVO L110H 632150
Component
Diesel Engine
Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP394290	---	---
Sample Date		Client Info		21 Feb 2024	---	---
Machine Age	hrs	Client Info		1017	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

Aluminum ppm levels are abnormal. Piston wear is indicated. Component wear metal level(s) high for break in.

Iron	ppm	ASTM D5185(m)	>100	49	---	---
Chromium	ppm	ASTM D5185(m)	>10	5	---	---
Nickel	ppm	ASTM D5185(m)	>10	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>2	1	---	---
Aluminum	ppm	ASTM D5185(m)	>10	▲ 68	---	---
Lead	ppm	ASTM D5185(m)	>20	3	---	---
Copper	ppm	ASTM D5185(m)	>15	18	---	---
Tin	ppm	ASTM D5185(m)	>10	3	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

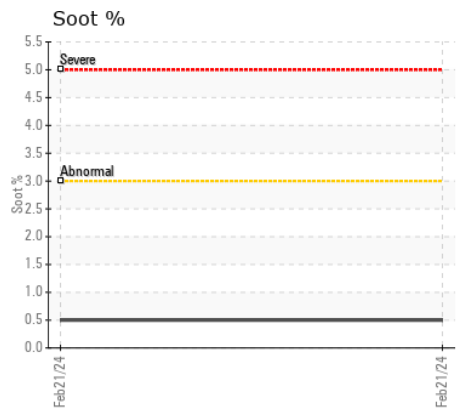
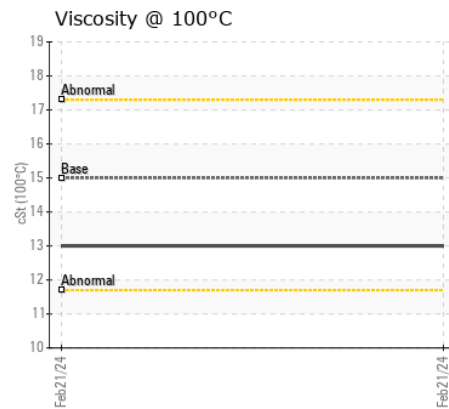
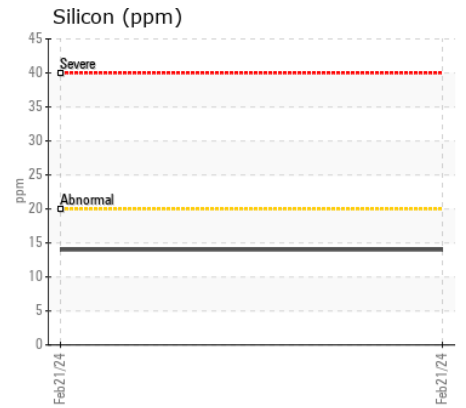
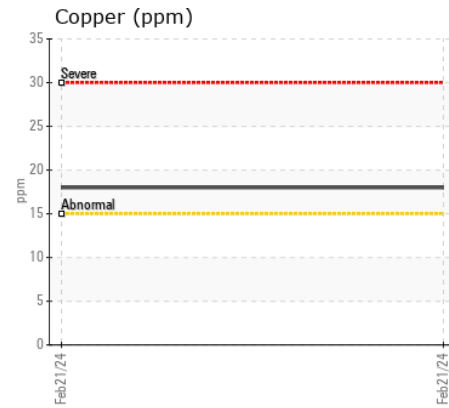
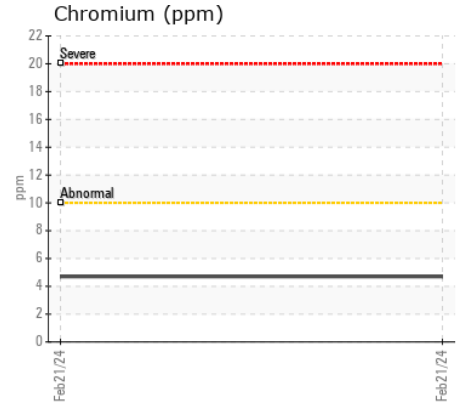
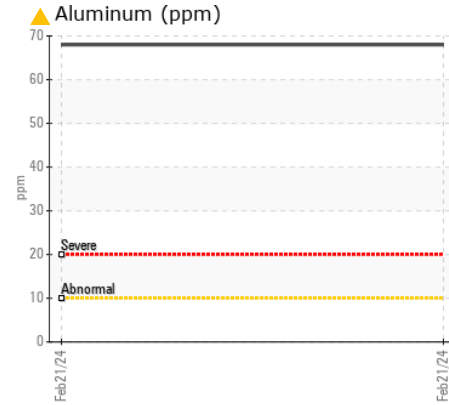
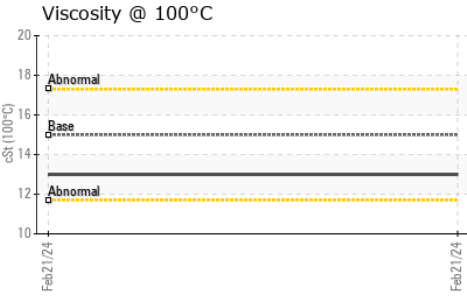
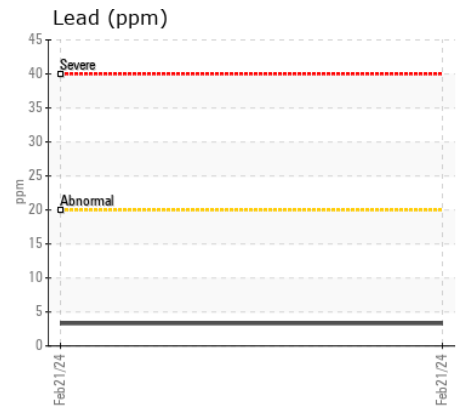
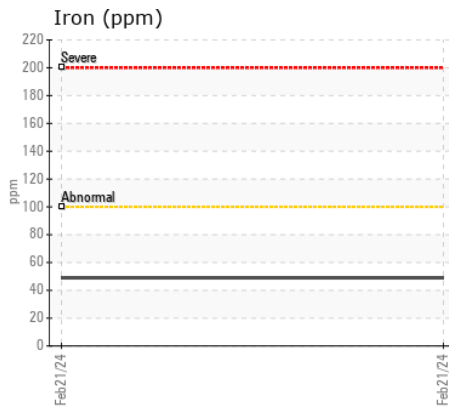
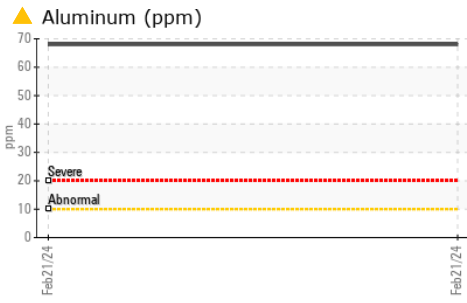
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	14	---	---
Potassium	ppm	ASTM D5185(m)	>20	3	---	---
Fuel		WC Method	>6.0	<1.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0.5	---	---
Nitration	Abs/cm	ASTM D7624*	>20	9.4	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.6	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		4	---	---
Boron	ppm	ASTM D5185(m)	2.5	52	---	---
Barium	ppm	ASTM D5185(m)	0.0	6	---	---
Molybdenum	ppm	ASTM D5185(m)	0.7	39	---	---
Manganese	ppm	ASTM D5185(m)	0.0	2	---	---
Magnesium	ppm	ASTM D5185(m)	256	598	---	---
Calcium	ppm	ASTM D5185(m)	2057	1584	---	---
Phosphorus	ppm	ASTM D5185(m)	935	932	---	---
Zinc	ppm	ASTM D5185(m)	1223	1061	---	---
Sulfur	ppm	ASTM D5185(m)	4079	2842	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.3	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.0	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP394290 **Received** : 23 Feb 2024
Lab Number : 02617591 **Tested** : 23 Feb 2024
Unique Number : 5734701 **Diagnosed** : 23 Feb 2024 - Kevin Marson
Test Package : MOB 1

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 RED DEER COUNTY, AB
 CA T4S 2L4
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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.