



VOLVO

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[8000394721]
 Machine Id
VOLVO L120H 632927
 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		VCP380411	VCP391817	VCP394704
Sample Date		Client Info		16 Feb 2024	18 Oct 2023	11 Aug 2023
Machine Age	hrs	Client Info		7646	6487	5896
Oil Age	hrs	Client Info		1000	2000	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL

WEAR

Silver ppm levels are severe.

Iron	ppm	ASTM D5185(m)	>200	9	8	7
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	11	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	4	4	3
Lead	ppm	ASTM D5185(m)	>40	<1	<1	0
Copper	ppm	ASTM D5185(m)	>20	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>20	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

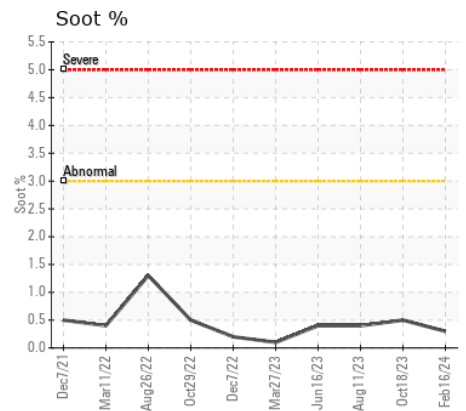
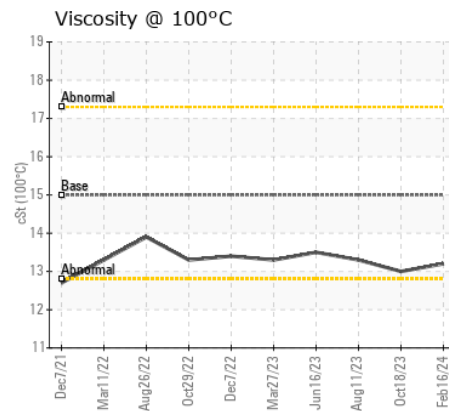
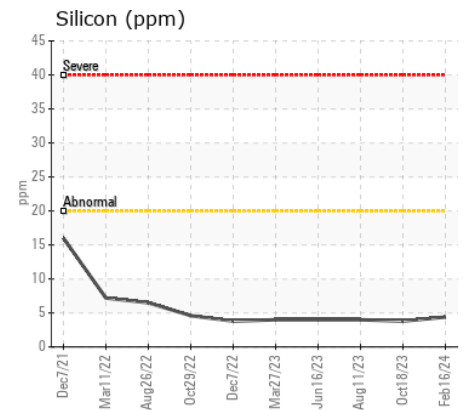
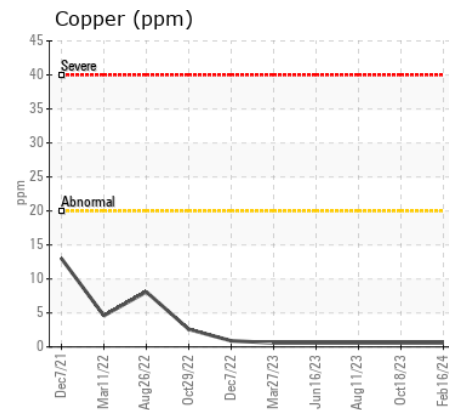
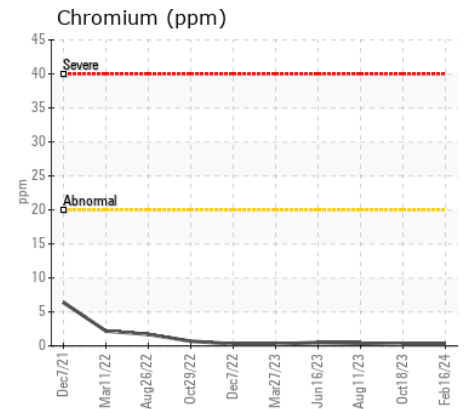
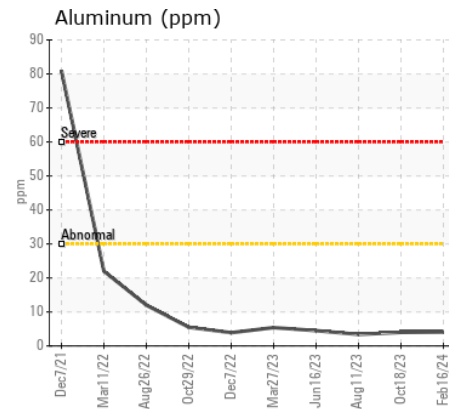
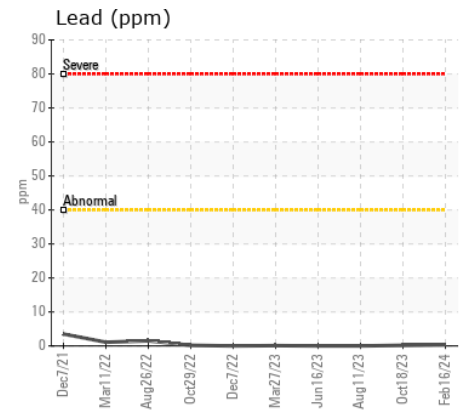
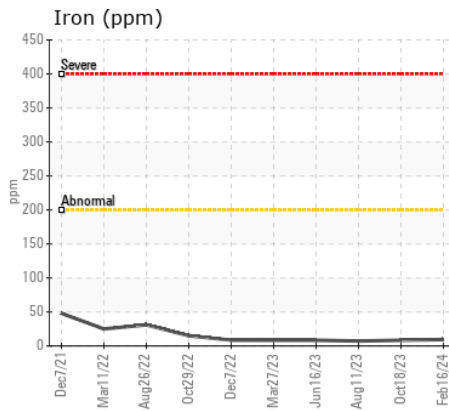
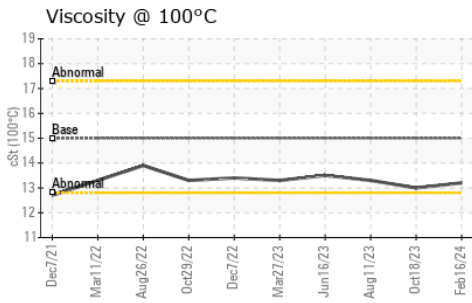
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	4	4	4
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.3	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	6.7	6.7	6.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.0	23.2	23.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		3	2	2
Boron	ppm	ASTM D5185(m)	2.5	45	36	40
Barium	ppm	ASTM D5185(m)	0.0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	0.7	40	40	41
Manganese	ppm	ASTM D5185(m)	0.0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	256	501	486	513
Calcium	ppm	ASTM D5185(m)	2057	1714	1652	1683
Phosphorus	ppm	ASTM D5185(m)	935	932	893	982
Zinc	ppm	ASTM D5185(m)	1223	1056	1058	1082
Sulfur	ppm	ASTM D5185(m)	4079	2522	2319	2435
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.8	20.3	20.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.2	13.0	13.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP380411 **Received** : 22 Feb 2024
Lab Number : 02617372 **Tested** : 22 Feb 2024
Unique Number : 5734482 **Diagnosed** : 22 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.