



VOLVO

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
NORMAL
NORMAL



Area

A&A AGGREGATES [401789]

Machine Id

VOLVO L110H 632079

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		VCP391655	VCP392983	VCP394517
Sample Date		Client Info		24 Apr 2024	10 Nov 2023	19 Aug 2023
Machine Age	hrs	Client Info		5015	4509	4003
Oil Age	hrs	Client Info		0	506	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

Copper ppm levels are noted. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	5	15	13
Chromium	ppm	ASTM D5185(m)	>10	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	1	7	7
Lead	ppm	ASTM D5185(m)	>20	0	<1	<1
Copper	ppm	ASTM D5185(m)	>15	18	1	1
Tin	ppm	ASTM D5185(m)	>10	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

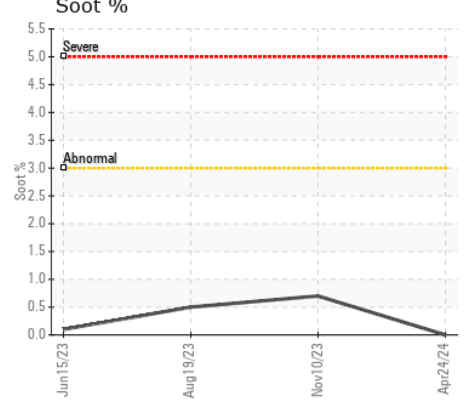
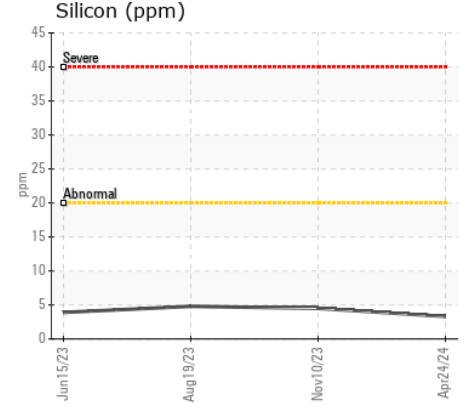
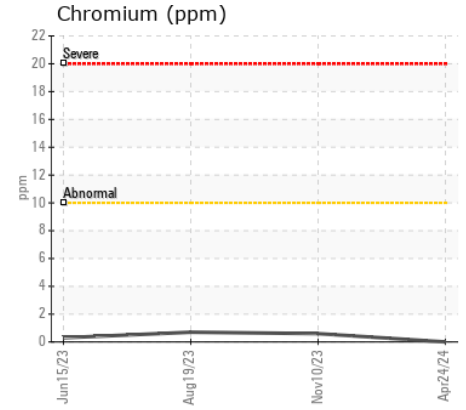
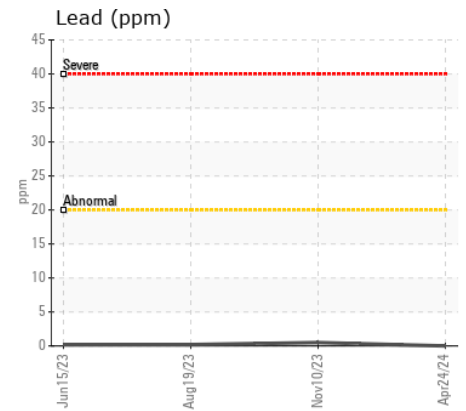
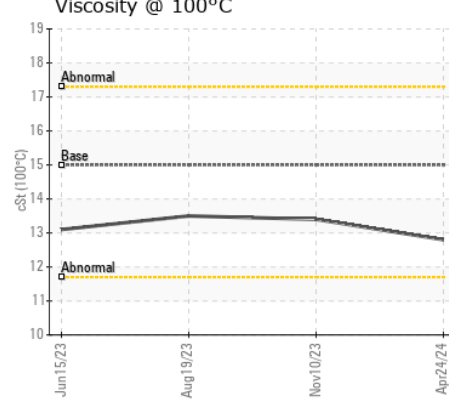
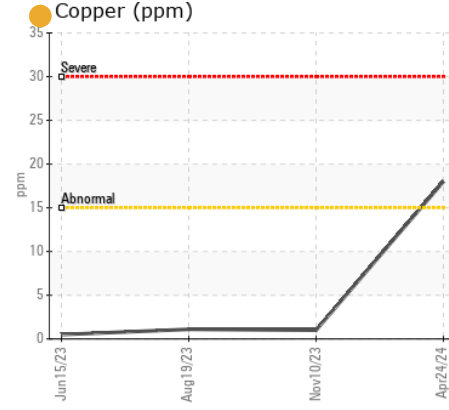
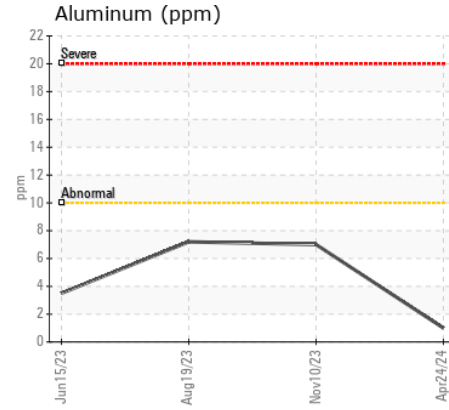
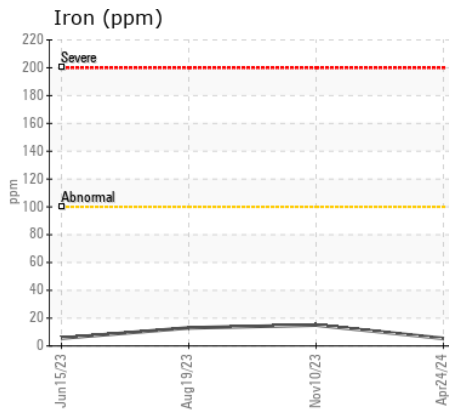
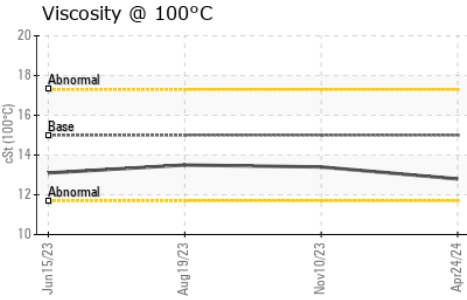
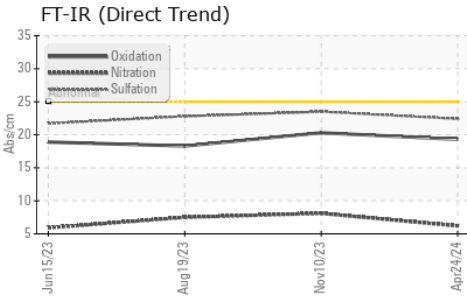
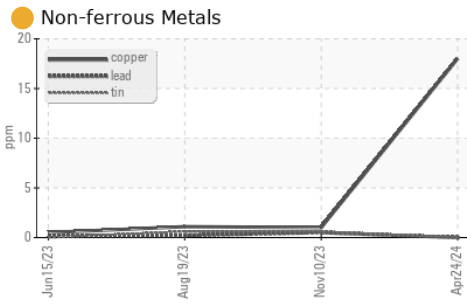
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	3	4	5
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0.7	0.5
Nitration	Abs/cm	ASTM D7624*	>20	6.2	8.1	7.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.4	23.5	22.8
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		2	2	2
Boron	ppm	ASTM D5185(m)	2.5	47	23	21
Barium	ppm	ASTM D5185(m)	0.0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	0.7	39	46	45
Manganese	ppm	ASTM D5185(m)	0.0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	256	483	597	616
Calcium	ppm	ASTM D5185(m)	2057	1690	1657	1583
Phosphorus	ppm	ASTM D5185(m)	935	904	944	1001
Zinc	ppm	ASTM D5185(m)	1223	1051	1133	1119
Sulfur	ppm	ASTM D5185(m)	4079	2442	2442	2457
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.3	20.3	18.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	12.8	13.4	13.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP391655
Lab Number : 02631468
Unique Number : 5772621
Test Package : MOB 1
Received : 26 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Kevin Marson

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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.