



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO L180E 311056

Component
Diesel Engine

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

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP430205	VCP352384	VCP347490
Sample Date		Client Info		28 Feb 2024	08 Dec 2022	08 Apr 2022
Machine Age	hrs	Client Info		3948	2912	2428
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	5	5	6
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	1	1	1
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>20	1	2	2
Tin	ppm	ASTM D5185(m)	>20	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

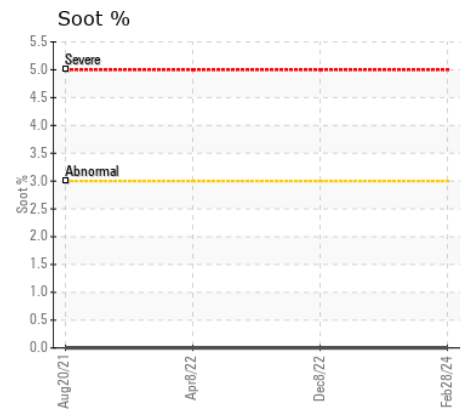
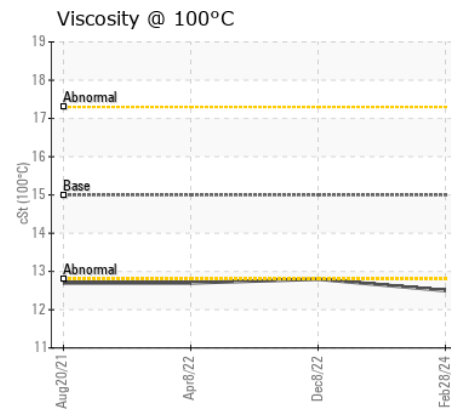
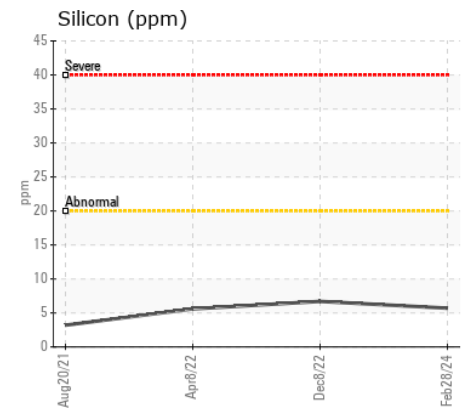
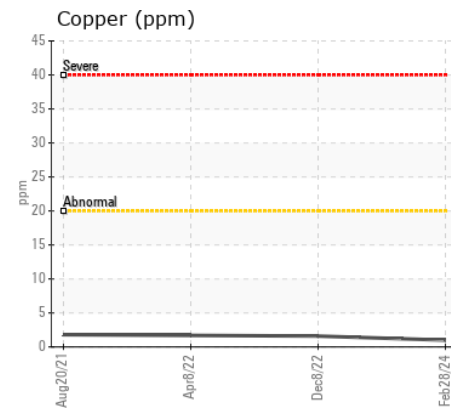
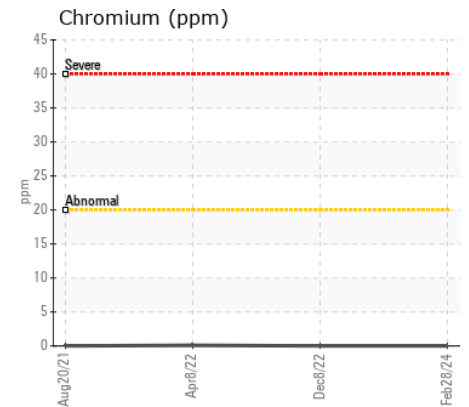
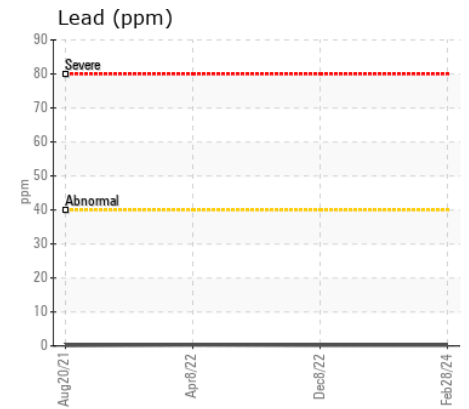
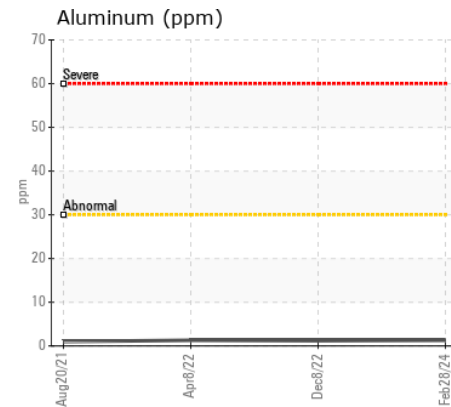
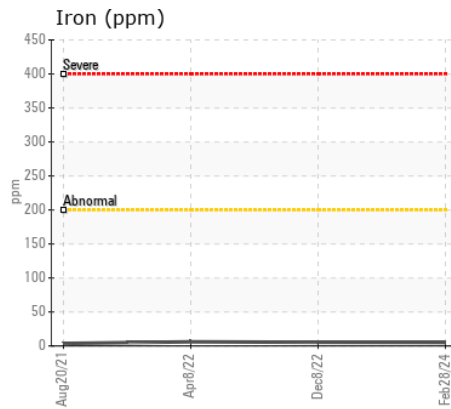
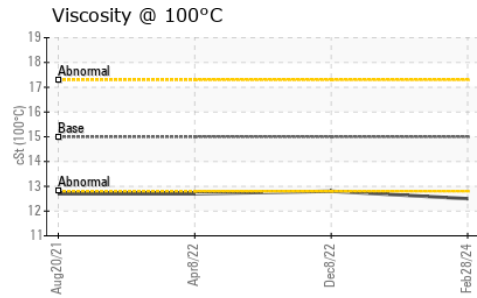
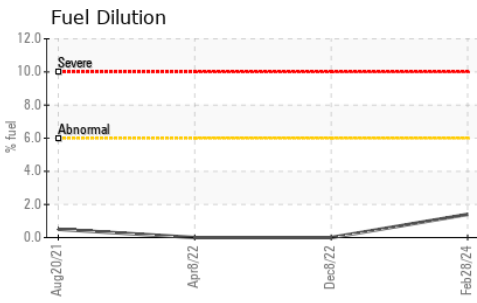
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>20	6	7	6
Potassium	ppm	ASTM D5185(m)	>20	2	<1	<1
Fuel	%	ASTM D7593*	>6.0	1.4	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.3	9.0	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.5	23.5	23.3
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		2	3	2
Boron	ppm	ASTM D5185(m)	2.5	32	31	28
Barium	ppm	ASTM D5185(m)	0.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.7	40	42	46
Manganese	ppm	ASTM D5185(m)	0.0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	256	494	552	657
Calcium	ppm	ASTM D5185(m)	2057	1662	1626	1509
Phosphorus	ppm	ASTM D5185(m)	935	917	1005	993
Zinc	ppm	ASTM D5185(m)	1223	1049	1092	1139
Sulfur	ppm	ASTM D5185(m)	4079	2489	2497	2463
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.1	21.8	20.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	12.5	12.8	12.7



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP430205 **Received** : 08 Mar 2024
Lab Number : 02620723 **Tested** : 11 Mar 2024
Unique Number : 5737833 **Diagnosed** : 11 Mar 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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.

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