



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[8000407265]

Machine Id

VOLVO EC140EL 314231

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		VCP392020	VCP382481	VCP298222
Sample Date		Client Info		06 Jun 2024	03 Feb 2023	03 Aug 2021
Machine Age	hrs	Client Info		3119	2024	1013
Oil Age	hrs	Client Info		563	494	549
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	16	15	28
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	3
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	2
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	3	3	7
Lead	ppm	ASTM D5185(m)	>20	0	0	<1
Copper	ppm	ASTM D5185(m)	>15	2	1	4
Tin	ppm	ASTM D5185(m)	>10	0	<1	2
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

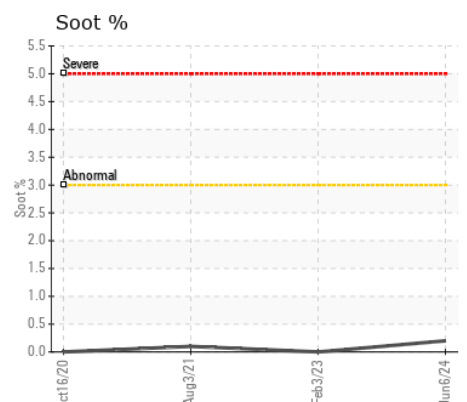
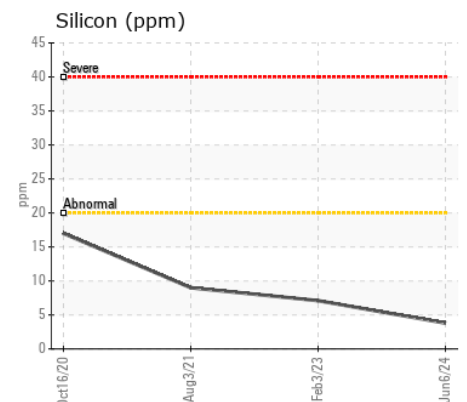
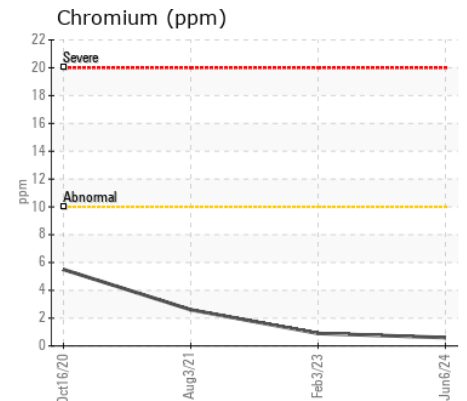
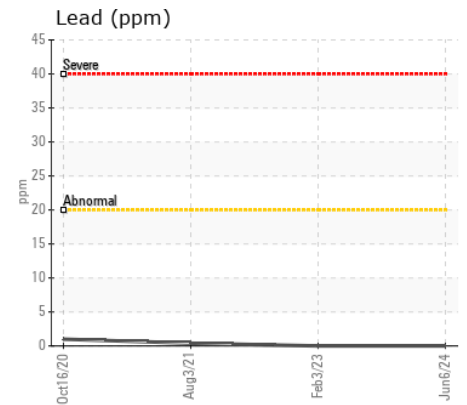
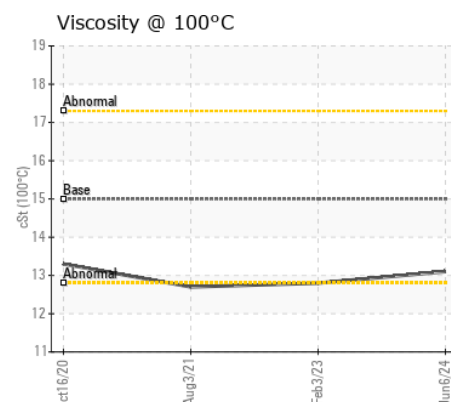
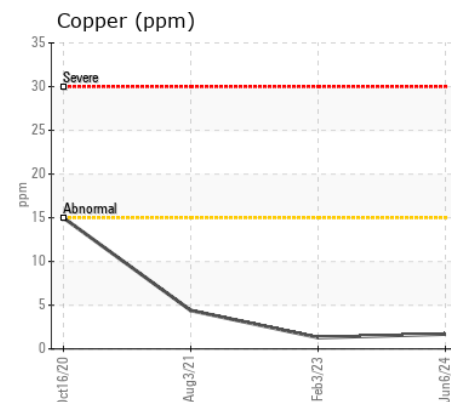
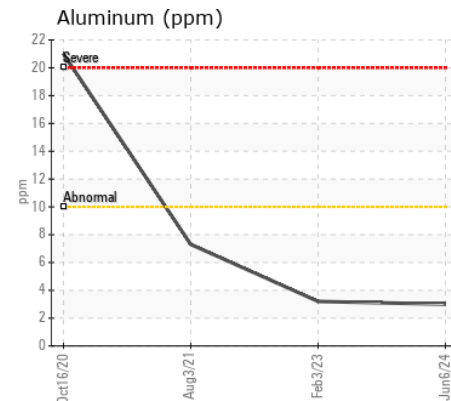
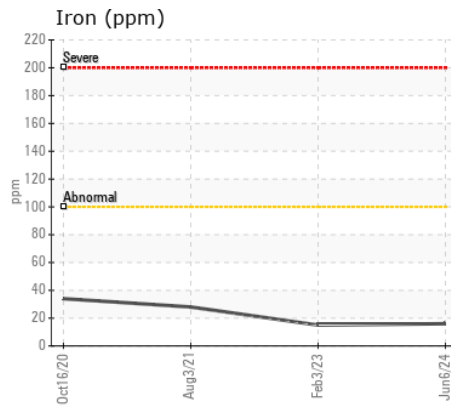
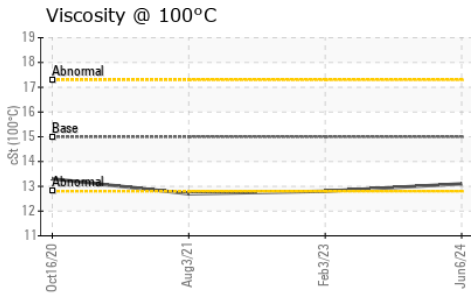
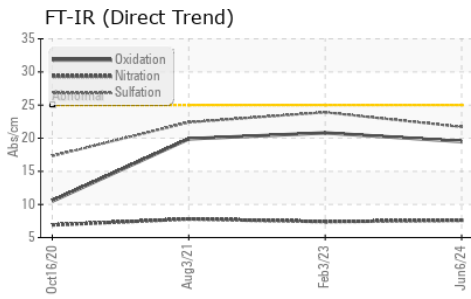
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	4	7	9
Potassium	ppm	ASTM D5185(m)	>20	<1	0	1
Fuel		WC Method	>6.0	<1.0	<1.0	0.6
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.2	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	7.6	7.4	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.7	23.9	22.4
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	3	2
Boron	ppm	ASTM D5185(m)	2.5	28	39	31
Barium	ppm	ASTM D5185(m)	0.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.7	44	42	35
Manganese	ppm	ASTM D5185(m)	0.0	<1	<1	1
Magnesium	ppm	ASTM D5185(m)	256	608	509	467
Calcium	ppm	ASTM D5185(m)	2057	1586	1743	1717
Phosphorus	ppm	ASTM D5185(m)	935	917	821	981
Zinc	ppm	ASTM D5185(m)	1223	1089	897	1127
Sulfur	ppm	ASTM D5185(m)	4079	2368	2153	2528
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.5	20.8	19.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.1	12.8	12.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP392020
Lab Number : 02641011
Unique Number : 5798550
Test Package : MOB 1

Received : 11 Jun 2024
Tested : 11 Jun 2024
Diagnosed : 11 Jun 2024 - Wes Davis

STRONGCO EQUIPMENT INC.
 55 ISNOR DRIVE, BURNSIDE INDUSTRIALPARK
 DARTMOUTH, NS
 CA B3B 1N6
 Contact: Lindsay Downs
 ldowns@strongco.com
 T: (902)468-5010
 F: (902)468-2468

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.