



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

[8000407919]

Machine Id

VOLVO ECR145EL 315964

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		VCP392014	VCP392026	VCP380294
Sample Date		Client Info		13 Jun 2024	30 Nov 2023	30 Aug 2023
Machine Age	hrs	Client Info		2516	2000	1616
Oil Age	hrs	Client Info		516	384	536
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	35	24	33
Chromium	ppm	ASTM D5185(m)	>10	1	<1	1
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	3	2	3
Lead	ppm	ASTM D5185(m)	>20	0	<1	0
Copper	ppm	ASTM D5185(m)	>15	1	1	2
Tin	ppm	ASTM D5185(m)	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

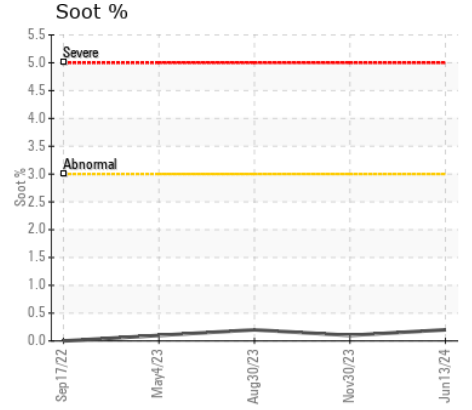
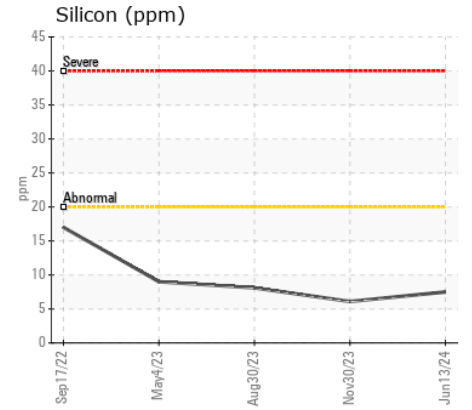
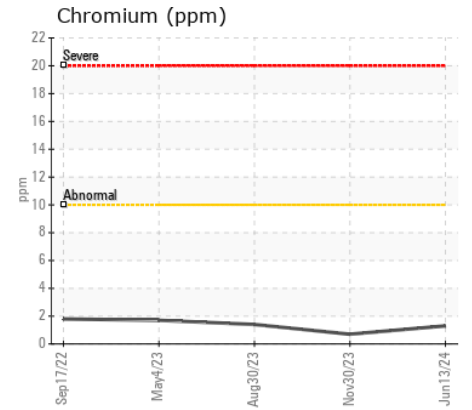
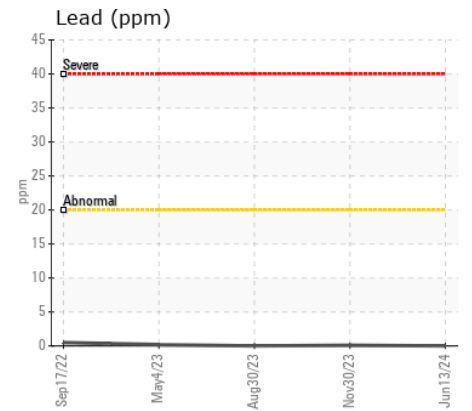
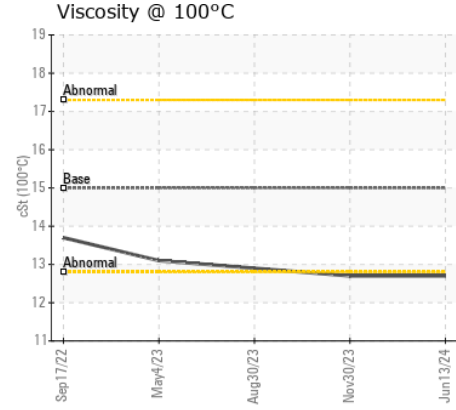
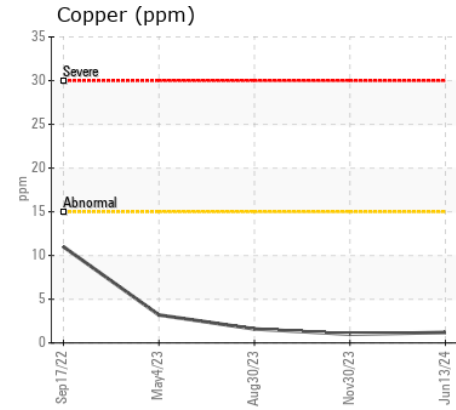
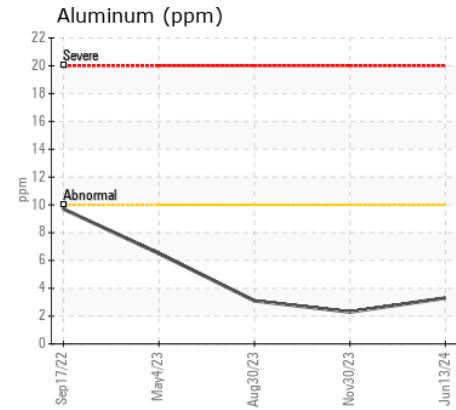
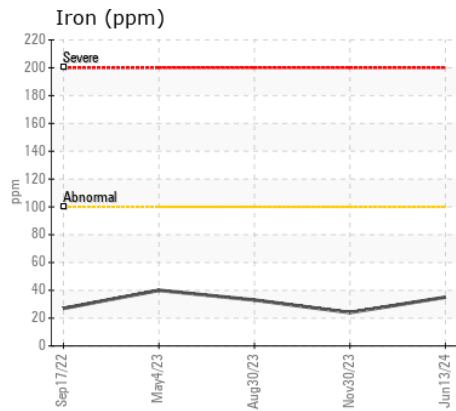
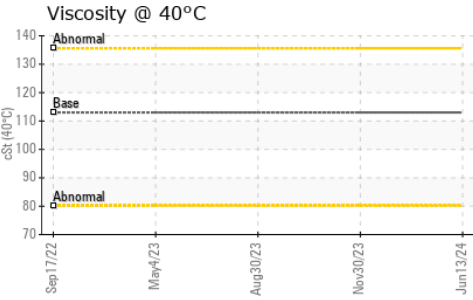
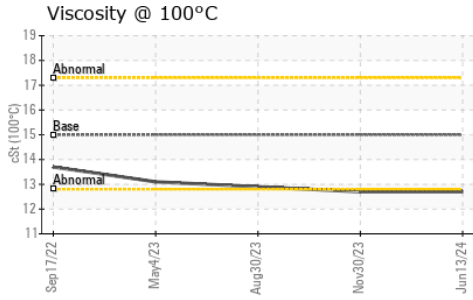
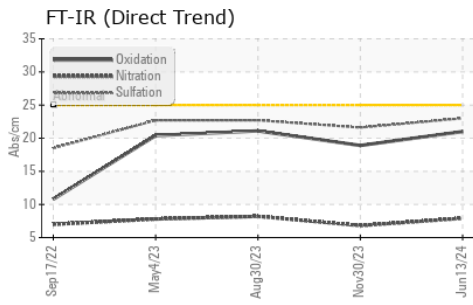
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	8	6	8
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	0.2	0.1	0.2
Nitration	Abs/cm	ASTM D7624*	>20	7.9	6.8	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.0	21.6	22.7
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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)		3	3	3
Boron	ppm	ASTM D5185(m)	2.5	33	33	24
Barium	ppm	ASTM D5185(m)	0.0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	0.7	42	40	42
Manganese	ppm	ASTM D5185(m)	0.0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	256	519	502	520
Calcium	ppm	ASTM D5185(m)	2057	1798	1696	1724
Phosphorus	ppm	ASTM D5185(m)	935	930	874	993
Zinc	ppm	ASTM D5185(m)	1223	1114	1065	1095
Sulfur	ppm	ASTM D5185(m)	4079	2457	2353	2449
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.0	18.9	21.1
Visc @ 40°C	cSt	ASTM D7279(m)	113	93.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	12.7	12.7	12.9
Viscosity Index (VI)	Scale	ASTM D2270*	138	132	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP392014
Lab Number : 02642482
Unique Number : 5800021
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

Received : 18 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 18 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.