



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

[8-404166]

Machine Id

16-8113

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		VCP391580	VCP430270	VCP391584
Sample Date		Client Info		16 May 2024	27 Sep 2023	17 Jul 2023
Machine Age	hrs	Client Info		7048	6518	6060
Oil Age	hrs	Client Info		0	0	0
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	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	9	11	19
Chromium	ppm	ASTM D5185(m)	>10	0	0	<1
Nickel	ppm	ASTM D5185(m)	>10	4	1	2
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	2	2	4
Lead	ppm	ASTM D5185(m)	>20	0	<1	<1
Copper	ppm	ASTM D5185(m)	>15	3	1	2
Tin	ppm	ASTM D5185(m)	>10	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

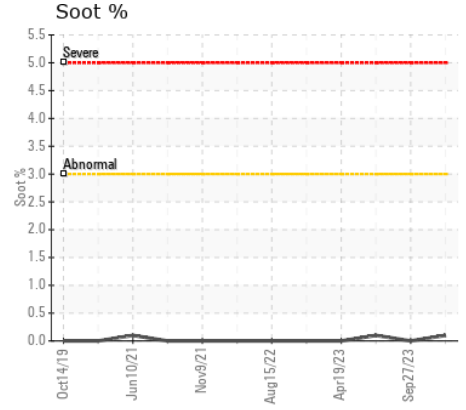
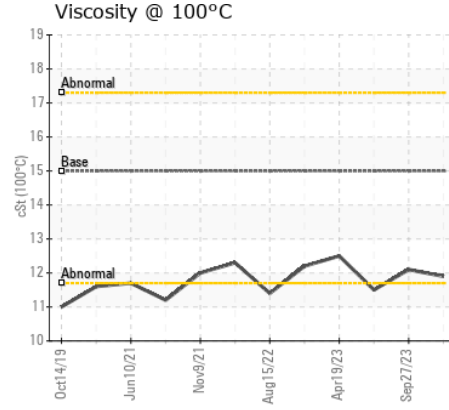
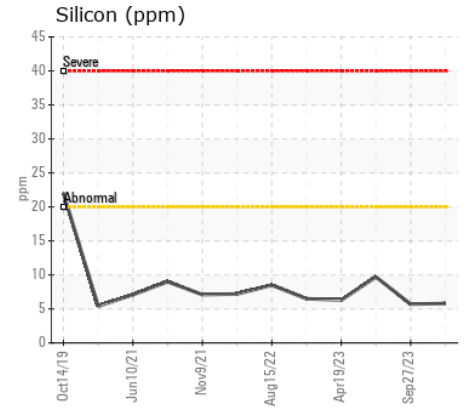
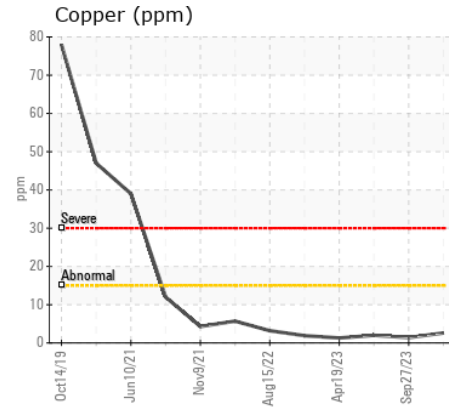
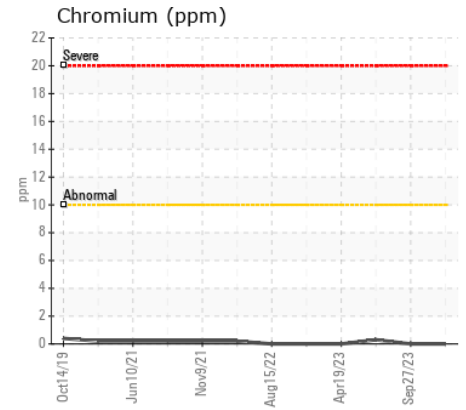
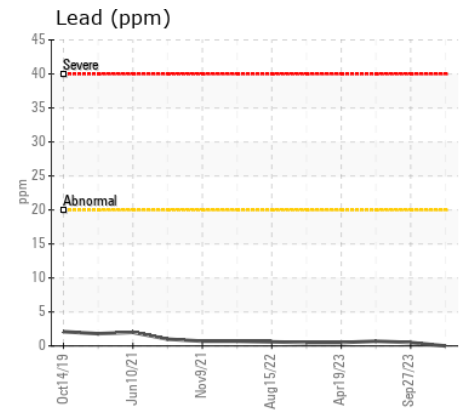
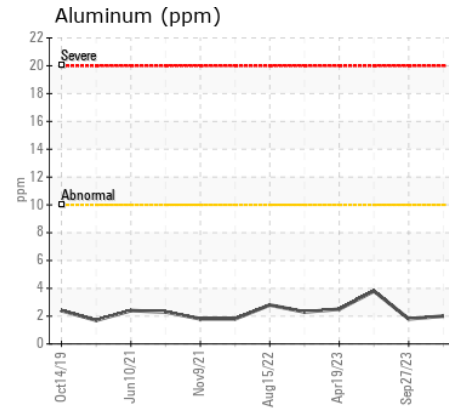
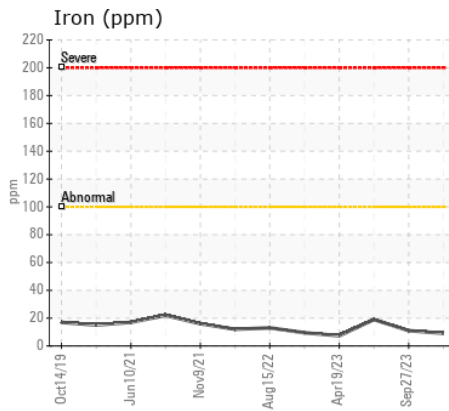
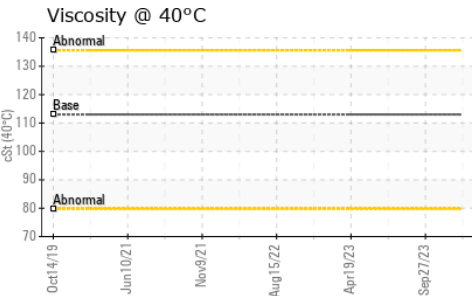
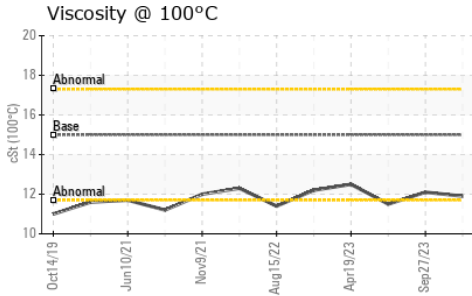
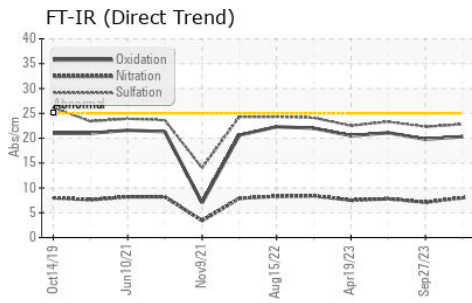
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	6	6	10
Potassium	ppm	ASTM D5185(m)	>20	1	1	3
Fuel		WC Method	>6.0	<1.0	<1.0	2.3
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	8.0	7.1	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.8	22.3	23.3
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	3
Boron	ppm	ASTM D5185(m)	2.5	30	29	25
Barium	ppm	ASTM D5185(m)	0.0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	0.7	38	37	35
Manganese	ppm	ASTM D5185(m)	0.0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	256	485	462	443
Calcium	ppm	ASTM D5185(m)	2057	1612	1594	1496
Phosphorus	ppm	ASTM D5185(m)	935	869	832	878
Zinc	ppm	ASTM D5185(m)	1223	1020	1010	955
Sulfur	ppm	ASTM D5185(m)	4079	2665	2304	2293
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.3	19.8	21.1
Visc @ 40°C	cSt	ASTM D7279(m)	113	84.7	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	11.9	12.1	▲ 11.5
Viscosity Index (VI)	Scale	ASTM D2270*	138	133	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP391580 **Received** : 27 May 2024
Lab Number : 02637744 **Tested** : 27 May 2024
Unique Number : 5786906 **Diagnosed** : 27 May 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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.