



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[8000397096]
 Machine Id
VOLVO EC220EL 315911
 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		VCP394164	---	---
Sample Date		Client Info		01 Mar 2024	---	---
Machine Age	hrs	Client Info		573	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	20	---	---
Chromium	ppm	ASTM D5185(m)	>10	1	---	---
Nickel	ppm	ASTM D5185(m)	>10	6	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>10	4	---	---
Lead	ppm	ASTM D5185(m)	>20	<1	---	---
Copper	ppm	ASTM D5185(m)	>15	8	---	---
Tin	ppm	ASTM D5185(m)	>10	2	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

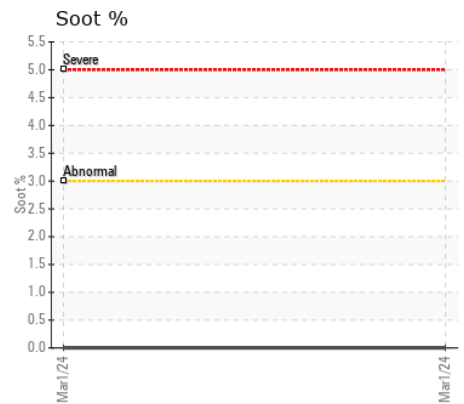
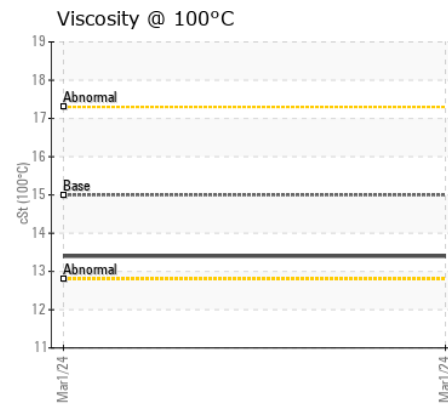
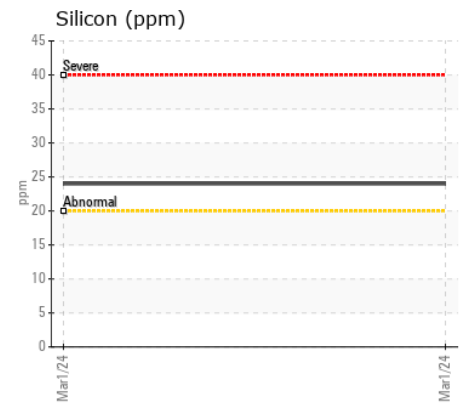
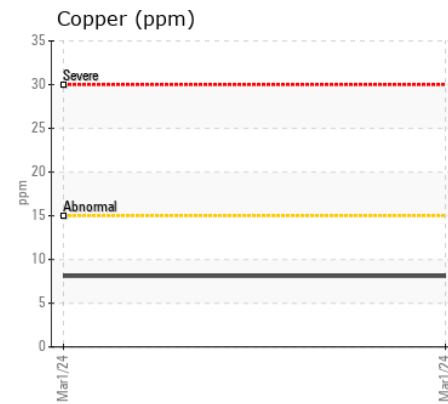
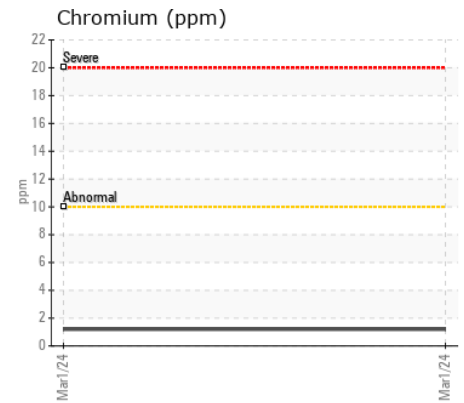
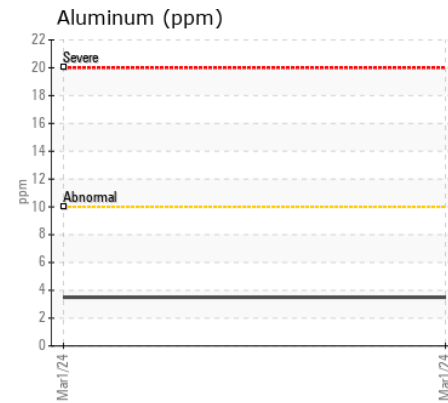
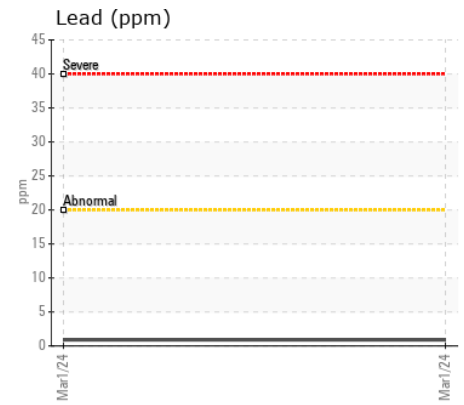
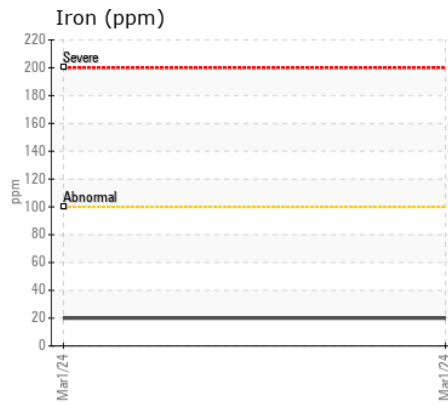
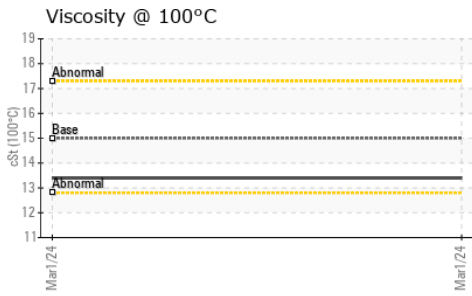
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	24	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Fuel		WC Method	>6.0	<1.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	8.5	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.4	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		3	---	---
Boron	ppm	ASTM D5185(m)	2.5	5	---	---
Barium	ppm	ASTM D5185(m)	0.0	2	---	---
Molybdenum	ppm	ASTM D5185(m)	0.7	13	---	---
Manganese	ppm	ASTM D5185(m)	0.0	4	---	---
Magnesium	ppm	ASTM D5185(m)	256	82	---	---
Calcium	ppm	ASTM D5185(m)	2057	2370	---	---
Phosphorus	ppm	ASTM D5185(m)	935	915	---	---
Zinc	ppm	ASTM D5185(m)	1223	1033	---	---
Sulfur	ppm	ASTM D5185(m)	4079	3257	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.4	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP394164
Lab Number : 02620409
Unique Number : 5737519
Test Package : MOB 1
Received : 07 Mar 2024
Tested : 07 Mar 2024
Diagnosed : 07 Mar 2024 - Wes Davis

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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.