MOB I

VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[25898]
Machine Id
VOLVO SD115 236161
Component
Diesel Engine
Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

The iron level is abnormal. The aluminum level is abnormal.

CONTAMINATION

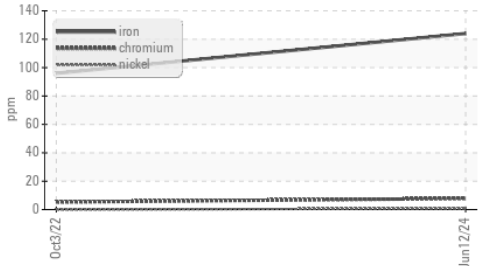
There is no indication of any contamination in the oil.

FLUID CONDITION

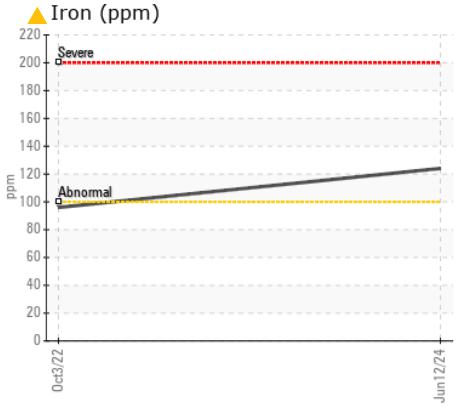
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP453801	VCP363506	---
Sample Date		Client Info		12 Jun 2024	03 Oct 2022	---
Machine Age	hrs	Client Info		3479	2862	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>100	▲ 124	96	---
Chromium	ppm	ASTM D5185m	>20	8	5	---
Nickel	ppm	ASTM D5185m	>2	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>25	▲ 58	34	---
Lead	ppm	ASTM D5185m	>40	<1	0	---
Copper	ppm	ASTM D5185m	>330	4	4	---
Tin	ppm	ASTM D5185m	>15	2	2	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	13	11	---
Potassium	ppm	ASTM D5185m	>20	4	4	---
Fuel		WC Method	>6.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.6	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	12.8	12.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	23.6	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185m		1	<1	---
Boron	ppm	ASTM D5185m	2.5	25	70	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.7	59	77	---
Manganese	ppm	ASTM D5185m	0.0	1	1	---
Magnesium	ppm	ASTM D5185m	256	574	586	---
Calcium	ppm	ASTM D5185m	2057	1805	1650	---
Phosphorus	ppm	ASTM D5185m	935	978	952	---
Zinc	ppm	ASTM D5185m	1223	1259	1185	---
Sulfur	ppm	ASTM D5185m	4079	2960	3433	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.3	21.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	8.2	9.8	---
Visc @ 100°C	cSt	ASTM D445	15.0	13.2	13.0	---

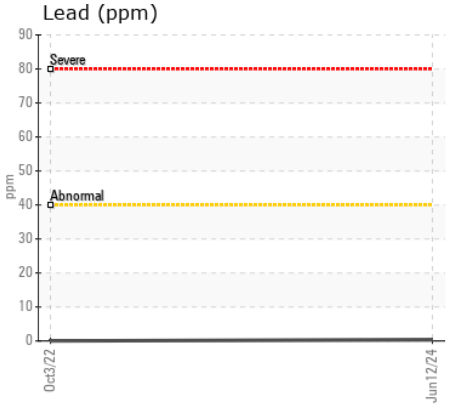
Ferrous Alloys



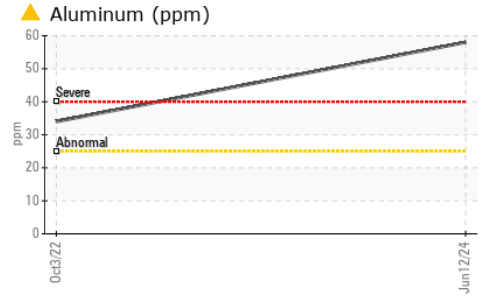
Iron (ppm)



Lead (ppm)



Aluminum (ppm)



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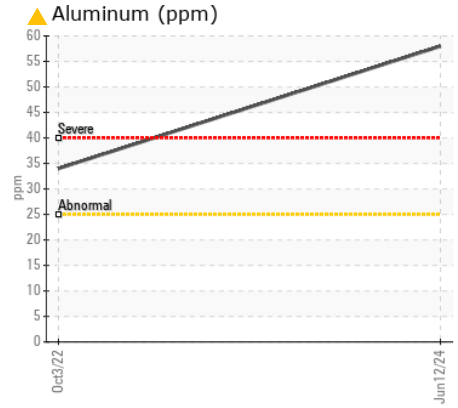
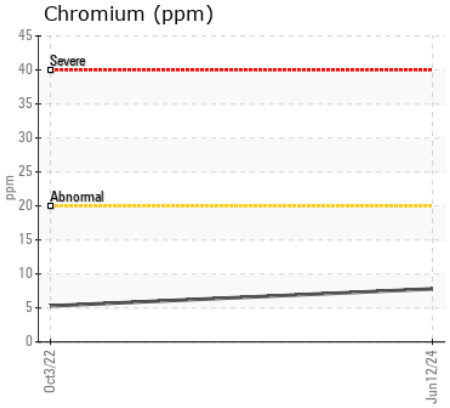
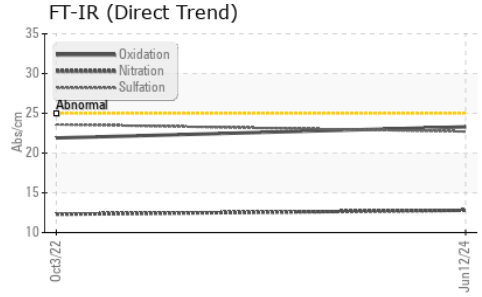


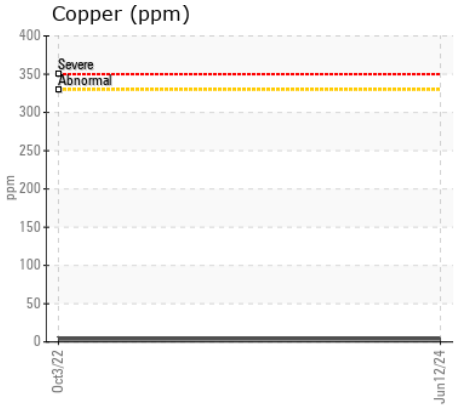
Chromium (ppm)



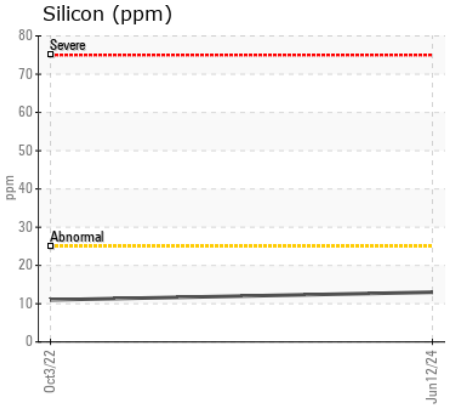
FT-IR (Direct Trend)



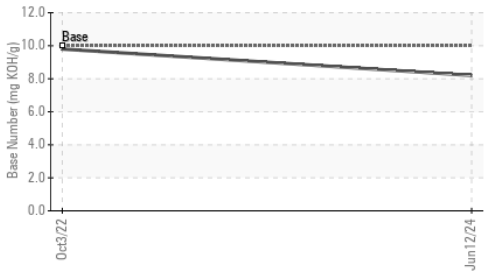
Copper (ppm)



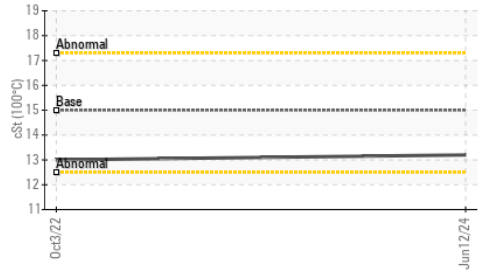
Silicon (ppm)



Base Number



Viscosity @ 100°C



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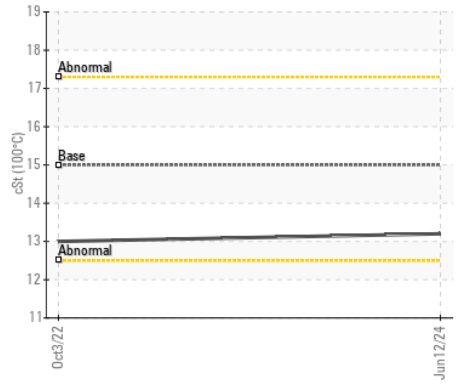
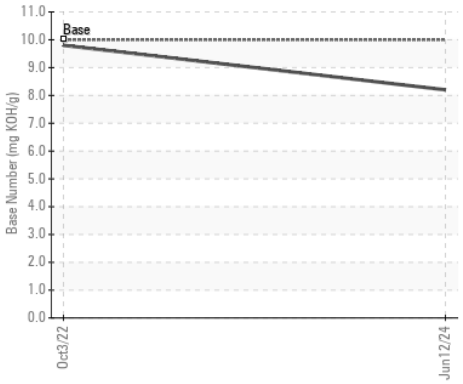


Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP453801
Lab Number : 06216541
Unique Number : 11089405
Test Package : MOB 1 (Additional Tests: TBN)

Received : 21 Jun 2024
Tested : 24 Jun 2024
Diagnosed : 24 Jun 2024 - Sean Felton

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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