MOB I

VOLVO

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[8-402591]
Machine Id
752688
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

Nickel ppm levels are severe. Exhaust valve wear is indicated.

CONTAMINATION

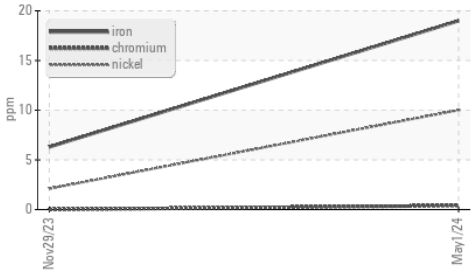
There is no indication of any contamination in the oil.

FLUID CONDITION

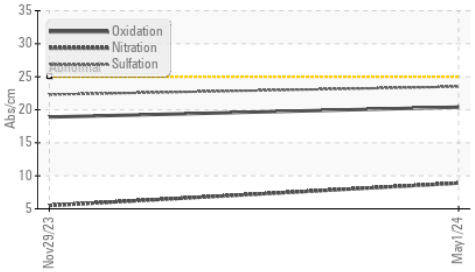
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP448178	VCP394339	---
Sample Date		Client Info		01 May 2024	29 Nov 2023	---
Machine Age	hrs	Client Info		1973	1450	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				SEVERE	NORMAL	---
Iron	ppm	ASTM D5185(m)	>100	19	6	---
Chromium	ppm	ASTM D5185(m)	>20	<1	0	---
Nickel	ppm	ASTM D5185(m)	>2	▲ 10	2	---
Titanium	ppm	ASTM D5185(m)		<1	0	---
Silver	ppm	ASTM D5185(m)	>2	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	2	1	---
Lead	ppm	ASTM D5185(m)	>40	<1	1	---
Copper	ppm	ASTM D5185(m)	>330	45	30	---
Tin	ppm	ASTM D5185(m)	>15	<1	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Silicon	ppm	ASTM D5185(m)	>25	4	5	---
Potassium	ppm	ASTM D5185(m)	>20	<1	0	---
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	0.1	0	---
Nitration	Abs/cm	ASTM D7624*	>20	8.9	5.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.5	22.3	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)		2	2	---
Boron	ppm	ASTM D5185(m)	250	31	60	---
Barium	ppm	ASTM D5185(m)	10	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	100	40	40	---
Manganese	ppm	ASTM D5185(m)		1	0	---
Magnesium	ppm	ASTM D5185(m)	450	536	528	---
Calcium	ppm	ASTM D5185(m)	3000	1722	1709	---
Phosphorus	ppm	ASTM D5185(m)	1150	954	943	---
Zinc	ppm	ASTM D5185(m)	1350	1123	1105	---
Sulfur	ppm	ASTM D5185(m)	4250	2468	2544	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.4	18.9	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	12.4	12.5	---

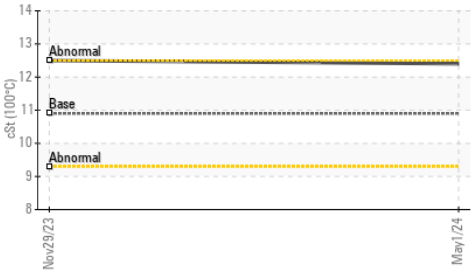
Ferrous Alloys



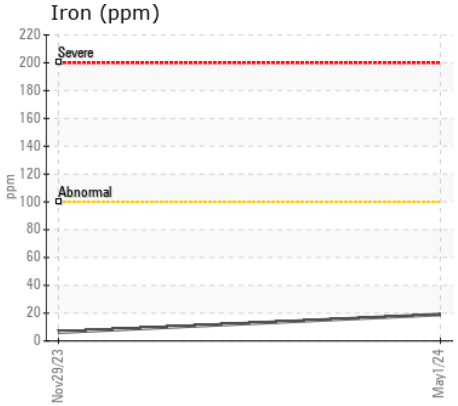
FT-IR (Direct Trend)



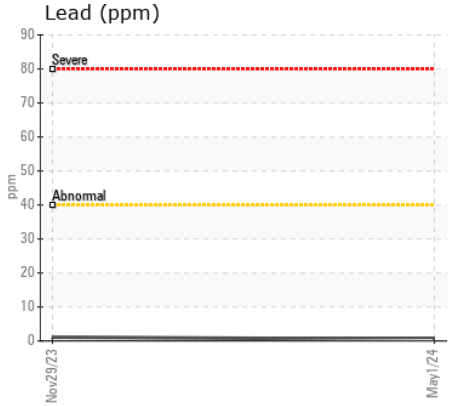
Viscosity @ 100°C



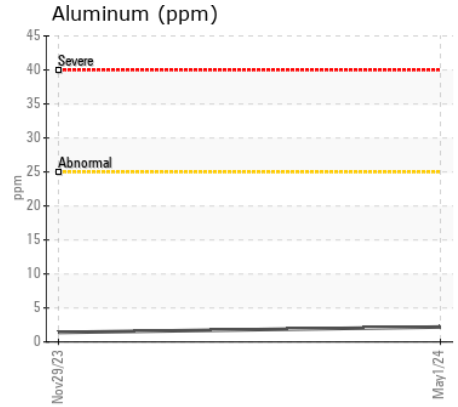
Iron (ppm)



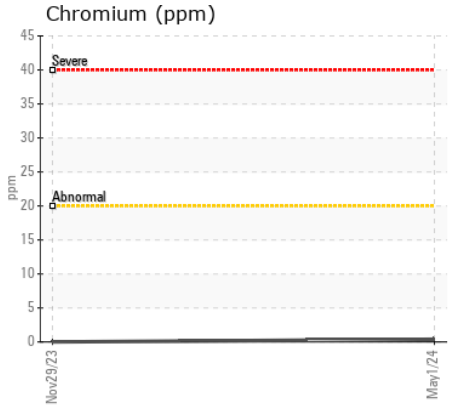
Lead (ppm)



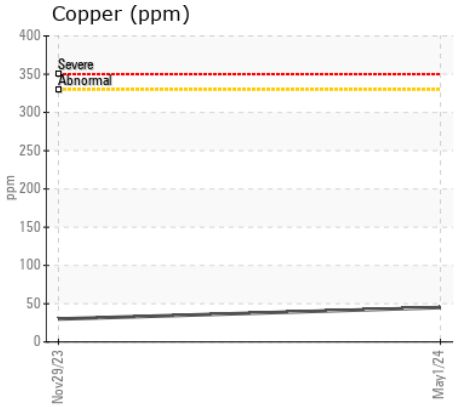
Aluminum (ppm)



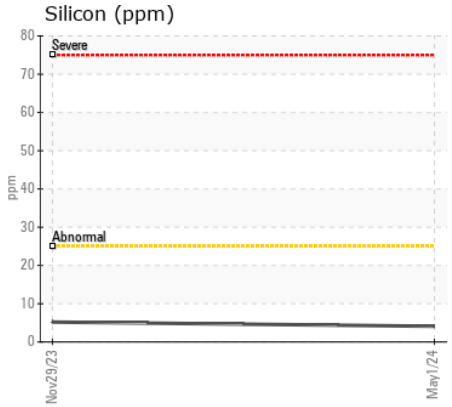
Chromium (ppm)



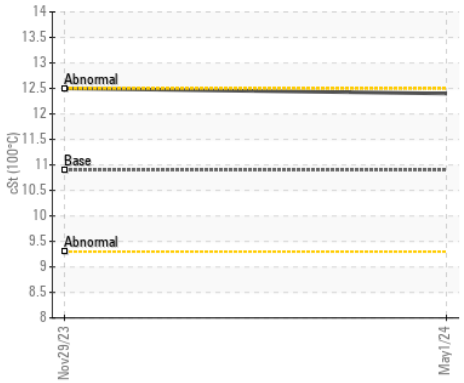
Copper (ppm)



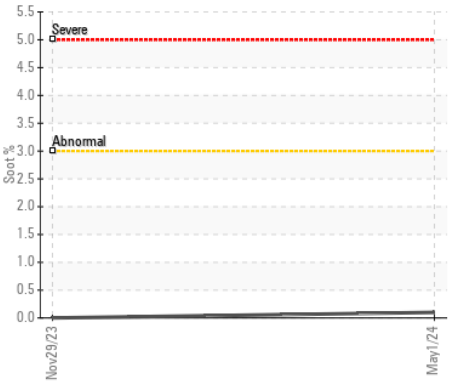
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP448178
Lab Number : 02634921
Unique Number : 5776074
Test Package : MOB 1

Received : 13 May 2024
Tested : 13 May 2024
Diagnosed : 13 May 2024 - Kevin Marson

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.

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