



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
VOLVO T-36
Component
Front Diesel Engine
Fluid
SAFETY-KLEEN PERFORMANCE PLUS SHD 15W40 (36 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0922825	WC0772773	WC0550251
Sample Date		Client Info		09 May 2024	30 Mar 2023	06 Dec 2022
Machine Age	kms	Client Info		418271	394054	386785
Oil Age	kms	Client Info		14324	6072	803
Filter Age	kms	Client Info		14324	6072	803
Oil Changed		Client Info		Not Changd	N/A	N/A
Filter Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	21	19	12
Chromium	ppm	ASTM D5185(m)	>6	0	<1	0
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	7	4
Lead	ppm	ASTM D5185(m)	>95	0	<1	<1
Copper	ppm	ASTM D5185(m)	>85	1	4	3
Tin	ppm	ASTM D5185(m)	>9	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

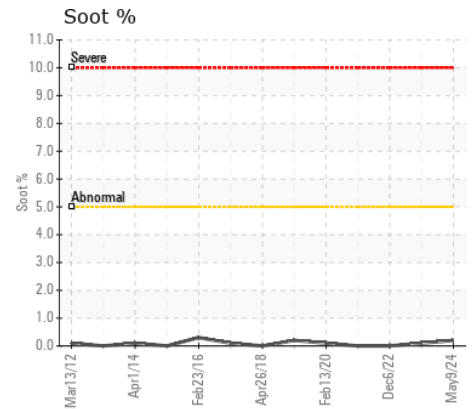
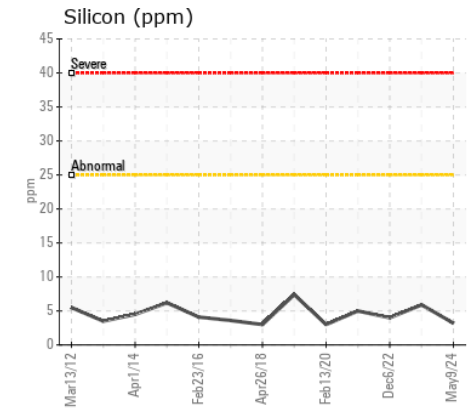
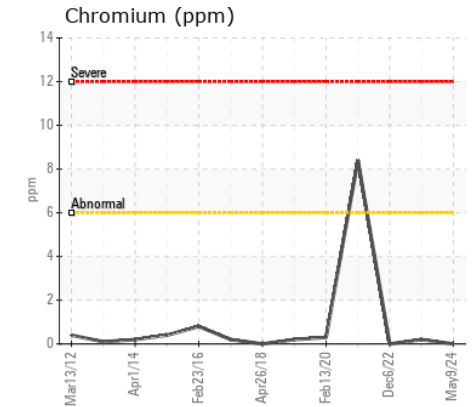
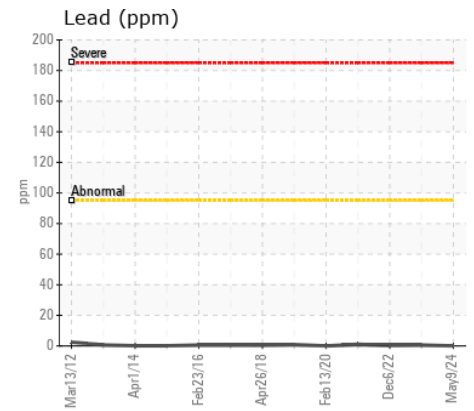
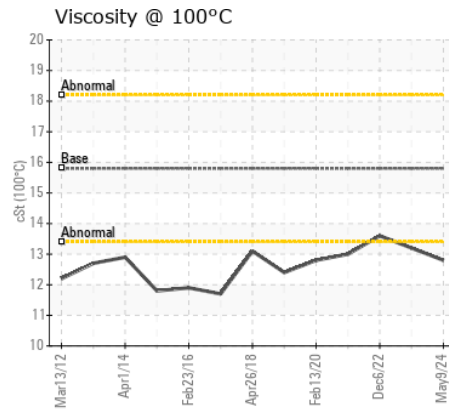
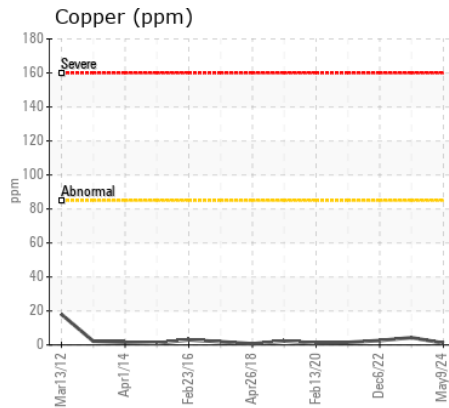
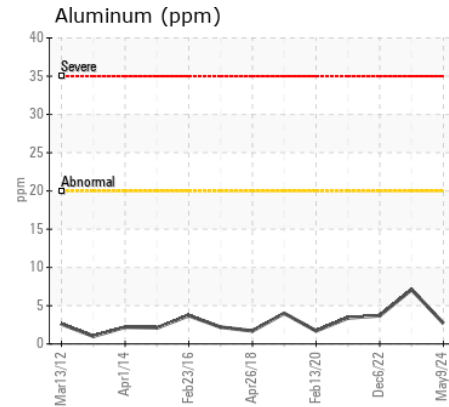
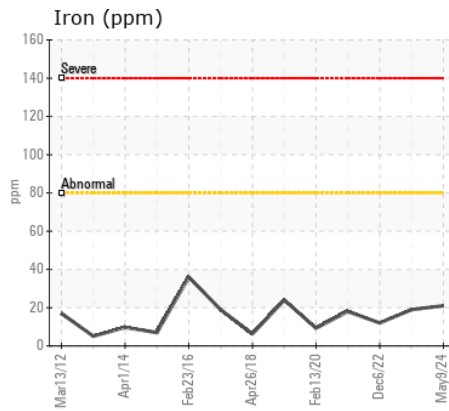
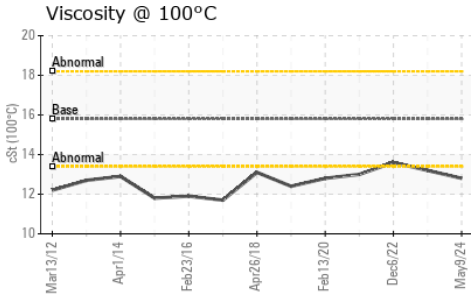
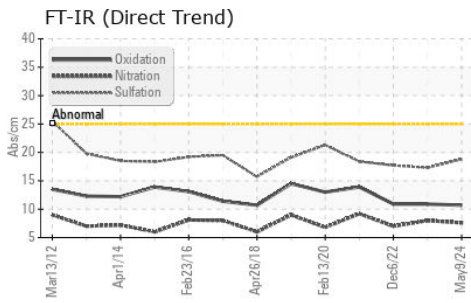
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	6	4
Potassium	ppm	ASTM D5185(m)	>20	1	6	3
Fuel		WC Method	>4.0	<1.0	1.1	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*		0.2	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	7.6	8.0	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8	17.3	17.7
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
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)		2	4	3
Boron	ppm	ASTM D5185(m)	0	4	12	17
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	4	26	24
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	45	56	52
Calcium	ppm	ASTM D5185(m)	2800	2095	2209	2124
Phosphorus	ppm	ASTM D5185(m)	1200	810	982	939
Zinc	ppm	ASTM D5185(m)	1350	943	1032	993
Sulfur	ppm	ASTM D5185(m)	5500	2753	3154	3071
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.7	10.9	10.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.8	12.8	13.2	13.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0922825 **Received** : 17 May 2024
Lab Number : 02636311 **Tested** : 17 May 2024
Unique Number : 5785473 **Diagnosed** : 17 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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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.