



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
VOLVO T-2
Component
Front Diesel Engine
Fluid
SAFETY-KLEEN PERFORMANCE PLUS SHD 15W40 (36 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0772774	WC0772817	WC0438542
Sample Date		Client Info		14 Mar 2024	10 Feb 2023	01 Feb 2021
Machine Age	kms	Client Info		510583	491605	427561
Oil Age	kms	Client Info		377	8181	7079
Filter Age	kms	Client Info		377	8181	7079
Oil Changed		Client Info		Not Changd	Changed	Not Changd
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	6	10	7
Chromium	ppm	ASTM D5185(m)	>6	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	3	2
Lead	ppm	ASTM D5185(m)	>95	0	<1	<1
Copper	ppm	ASTM D5185(m)	>85	<1	2	1
Tin	ppm	ASTM D5185(m)	>9	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

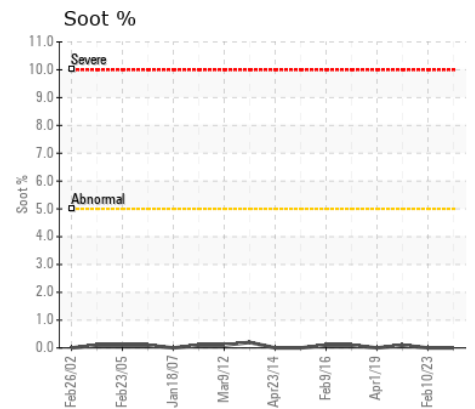
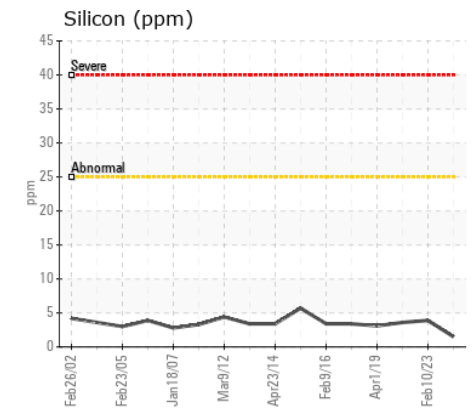
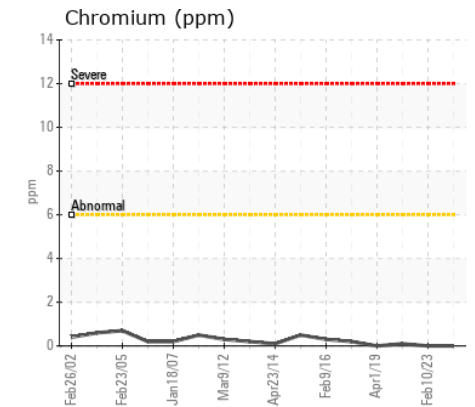
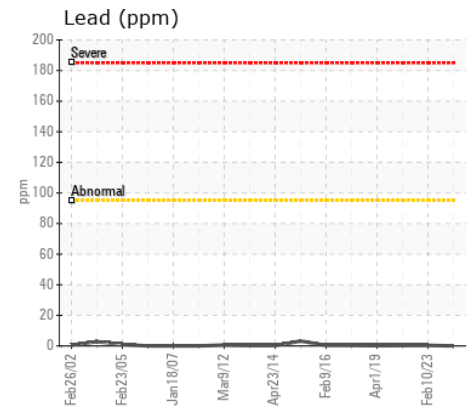
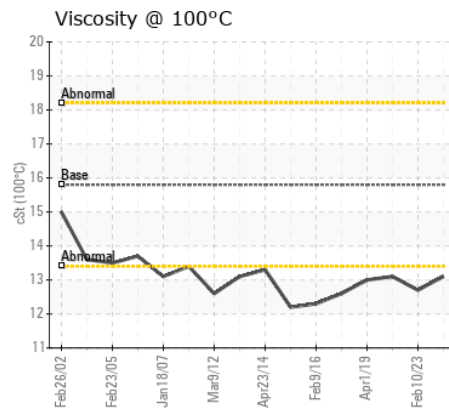
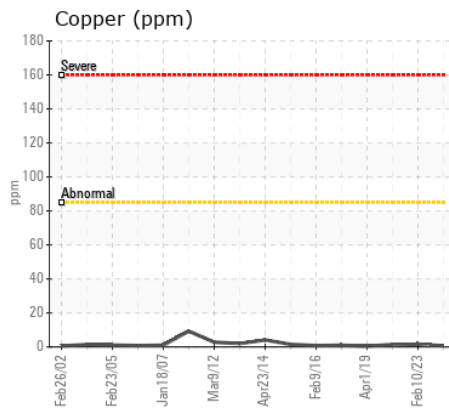
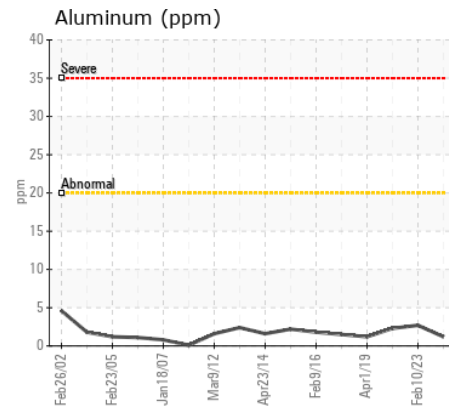
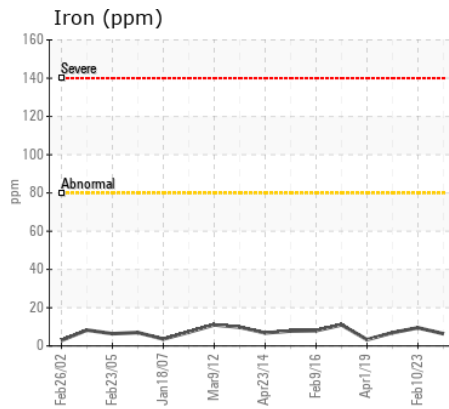
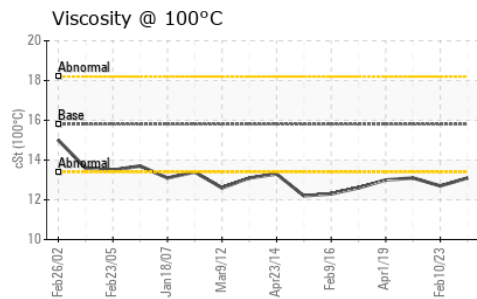
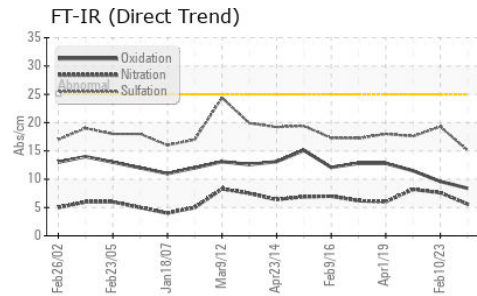
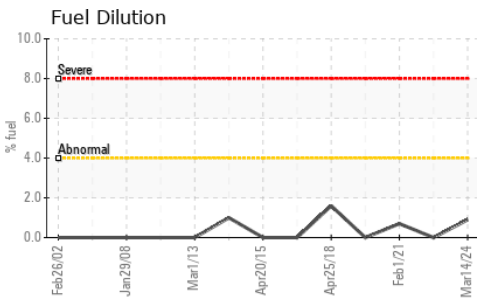
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	4	4
Potassium	ppm	ASTM D5185(m)	>20	<1	1	1
Fuel	%	ASTM D7593*	>4.0	0.9	<1.0	0.7
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	5.6	7.6	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	15.1	19.3	17.6
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	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)		5	3	3
Boron	ppm	ASTM D5185(m)	0	3	4	15
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	3	3	37
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	31	27	169
Calcium	ppm	ASTM D5185(m)	2800	1942	2183	1976
Phosphorus	ppm	ASTM D5185(m)	1200	783	892	918
Zinc	ppm	ASTM D5185(m)	1350	916	949	1115
Sulfur	ppm	ASTM D5185(m)	5500	2713	2941	3123
Oxidation	Abs/.1mm	ASTM D7414*	>25	8.4	9.6	11.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.8	13.1	12.7	13.1



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0772774
Lab Number : 02629521
Unique Number : 5762653
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, 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.