



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO A25F 13541
Component
Diesel Engine
Fluid
PHILLIPS 66 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP425739	VCP379402	VCP335814
Sample Date		Client Info		02 May 2023	03 Jun 2022	03 Dec 2021
Machine Age	hrs	Client Info		7844	7360	6866
Oil Age	hrs	Client Info		500	500	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	6	14	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		74	83	85
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	4	5
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>20	<1	1	1
Tin	ppm	ASTM D5185m	>20	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

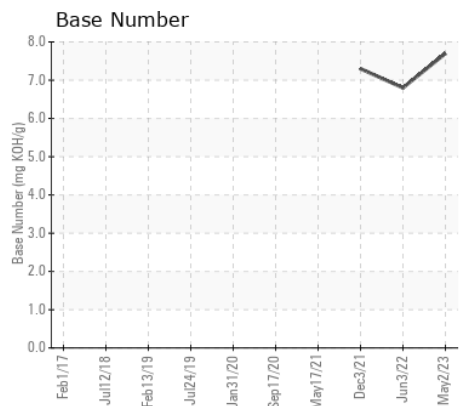
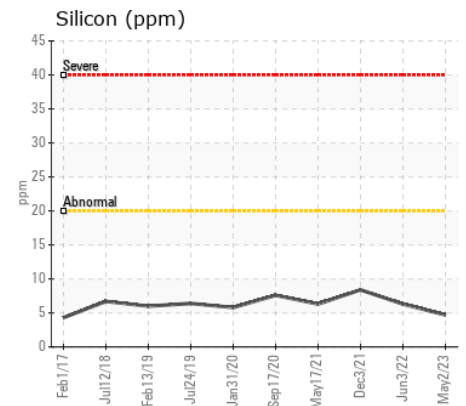
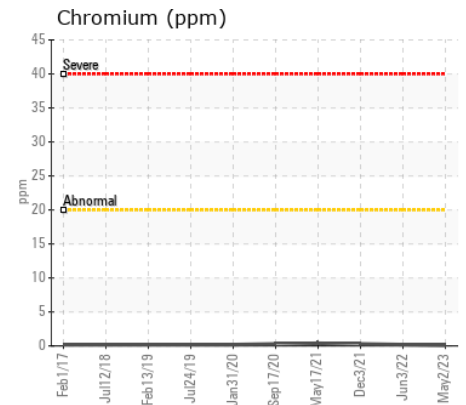
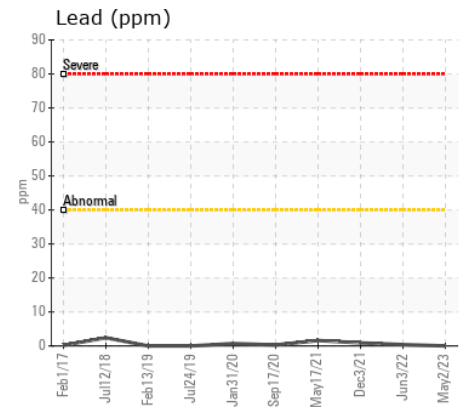
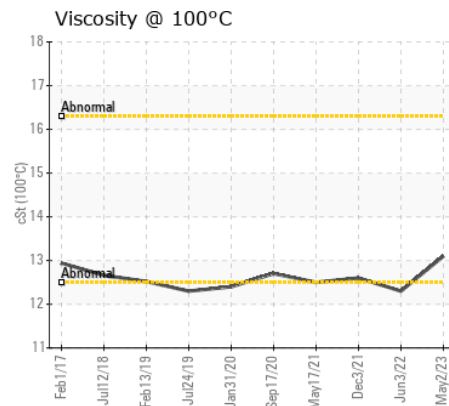
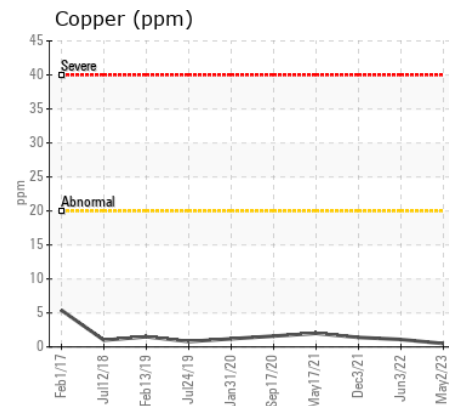
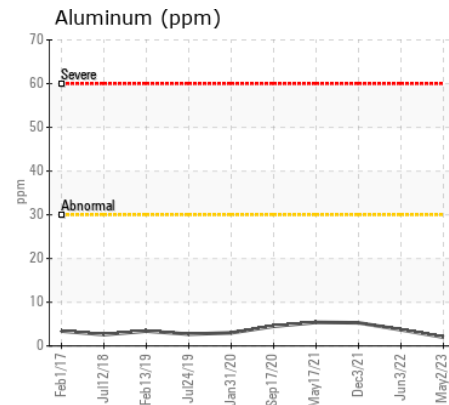
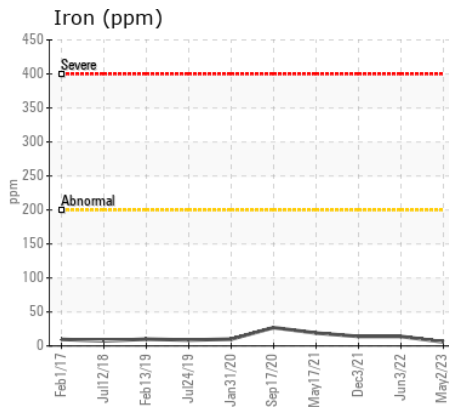
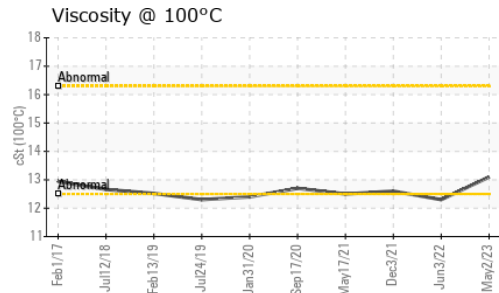
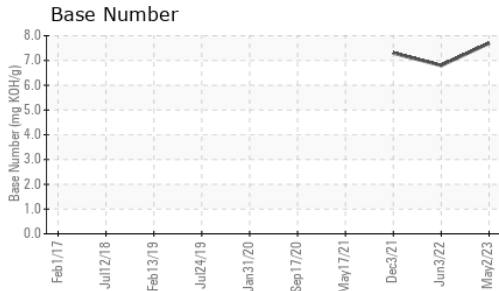
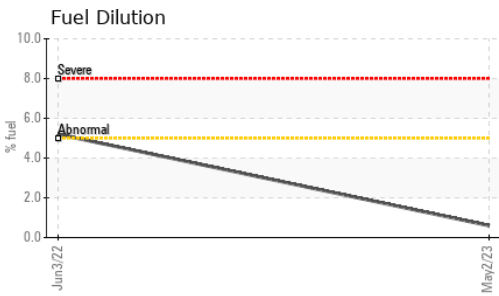
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	5	6	8
Potassium	ppm	ASTM D5185m	>20	1	3	2
Fuel	%	ASTM D3524	>5	0.6	▲ 5.2	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.2	0
Nitration	Abs/cm	*ASTM D7624	>20	6.9	9.6	4.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	20.3	14.9
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		3	3	2
Boron	ppm	ASTM D5185m		187	110	86
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		22	9	9
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		434	383	426
Calcium	ppm	ASTM D5185m		1859	1803	1846
Phosphorus	ppm	ASTM D5185m		1080	985	1057
Zinc	ppm	ASTM D5185m		1224	1195	1208
Sulfur	ppm	ASTM D5185m		4647	4584	3680
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	16.2	10.5
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	6.8	7.3
Visc @ 100°C	cSt	ASTM D445		13.1	▲ 12.3	12.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP425739 **Received** : 08 May 2023
Lab Number : 05840325 **Diagnosed** : 10 May 2023
Unique Number : 10459128 **Diagnostician** : Don Baldrige
Test Package : MOB 1 (Additional Tests: PercentFuel, TBN)

WELLONS CONSTRUCTION
 510 N POWELL AVE
 DUNN, NC
 US 28334
 Contact: GREG WRENCH

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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