



# VOLVO

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area  
**[SPM688079 US STEEL]**  
 Machine Id  
**VOLVO A25G 752203**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP06153886	VCP360052	VCP334790
Sample Date		Client Info		19 Mar 2024	29 Mar 2022	18 Oct 2021
Machine Age	hrs	Client Info		5160	3706	846
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	20	14	42
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	2
Aluminum	ppm	ASTM D5185m	>25	6	3	0
Lead	ppm	ASTM D5185m	>40	2	<1	<1
Copper	ppm	ASTM D5185m	>330	11	11	▲ 626
Tin	ppm	ASTM D5185m	>15	<1	1	4
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

### CONTAMINATION

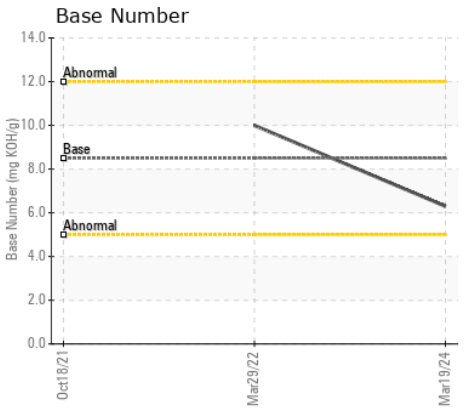
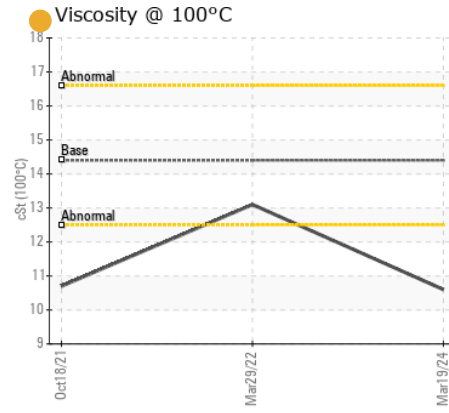
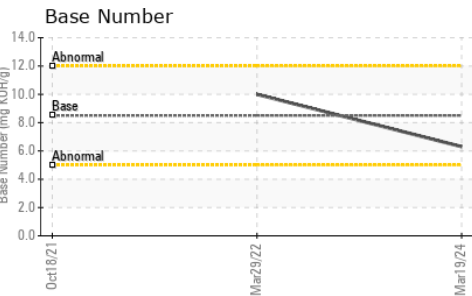
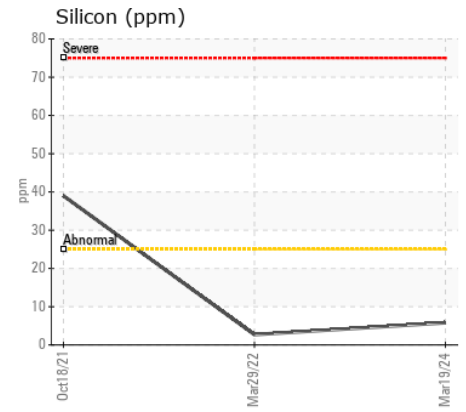
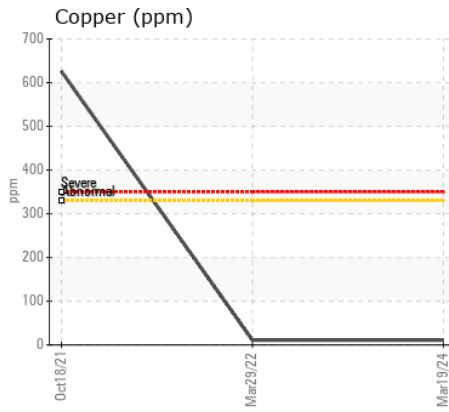
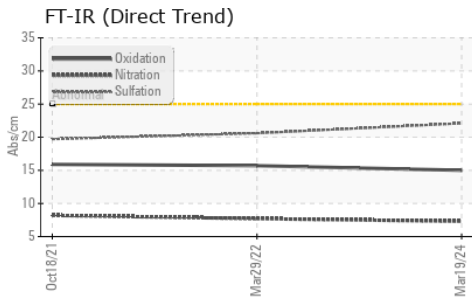
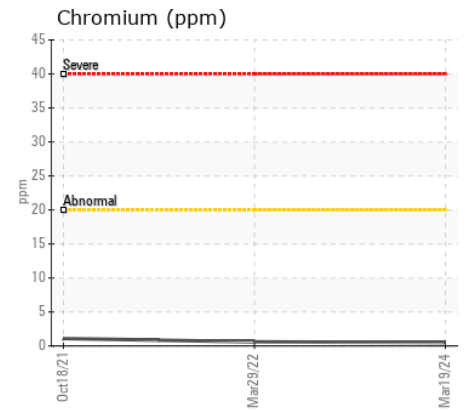
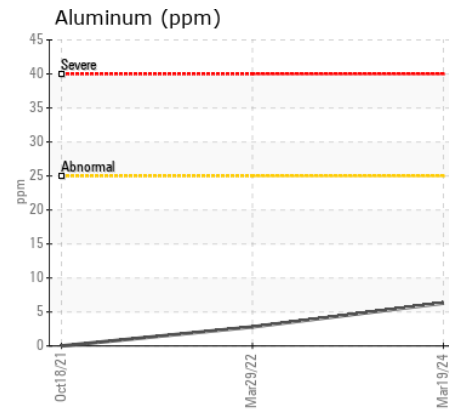
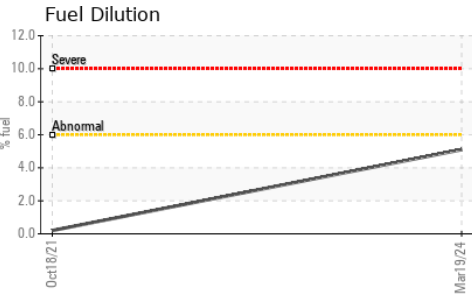
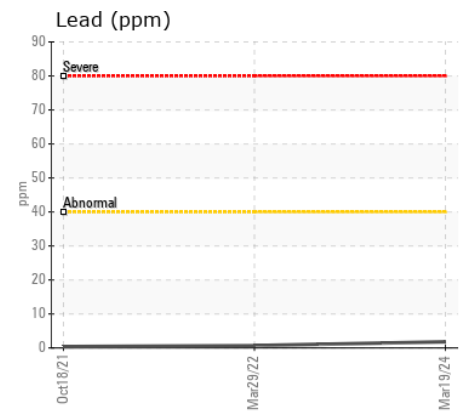
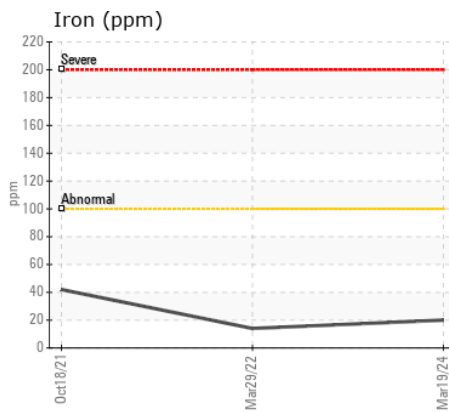
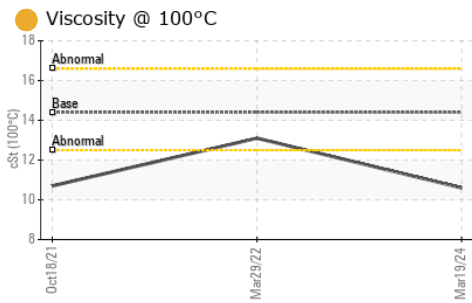
Light fuel dilution occurring. Tests confirm the presence of fuel in the oil. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>25	6	3	39
Potassium	ppm	ASTM D5185m	>20	<1	<1	3
Fuel	%	ASTM D3524	>6.0	5.1	<1.0	0.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.3	7.7	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	20.6	19.7
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 oil viscosity is lower than normal.

Sodium	ppm	ASTM D5185m	>158	3	3	0
Boron	ppm	ASTM D5185m	250	212	56	33
Barium	ppm	ASTM D5185m	10	0	0	<1
Molybdenum	ppm	ASTM D5185m	100	70	68	65
Manganese	ppm	ASTM D5185m		<1	<1	4
Magnesium	ppm	ASTM D5185m	450	359	1004	859
Calcium	ppm	ASTM D5185m	3000	1476	1252	1147
Phosphorus	ppm	ASTM D5185m	1150	947	1163	998
Zinc	ppm	ASTM D5185m	1350	1108	1320	1142
Sulfur	ppm	ASTM D5185m	4250	3648	3068	2453
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	15.7	15.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.3	10.0	---
Visc @ 100°C	cSt	ASTM D445	14.4	● 10.6	13.1	● 10.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP06153886 **Received** : 19 Apr 2024  
**Lab Number** : 06153886 **Tested** : 23 Apr 2024  
**Unique Number** : 10989309 **Diagnosed** : 23 Apr 2024 - Angela Borella  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, TBN )

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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)