



# VOLVO

## OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**[337558]**  
 Machine Id  
**VOLVO A25G 752581**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 30 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP06158692	VCP421349	---
Sample Date		Client Info		22 Apr 2024	02 Dec 2023	---
Machine Age	hrs	Client Info		1662	1094	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

### WEAR

Exhaust valve wear is indicated.

Iron	ppm	ASTM D5185m	>100	13	41	---
Chromium	ppm	ASTM D5185m	>20	0	1	---
Nickel	ppm	ASTM D5185m	>2	▲ 4	▲ 8	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>25	<1	3	---
Lead	ppm	ASTM D5185m	>40	0	5	---
Copper	ppm	ASTM D5185m	>330	40	176	---
Tin	ppm	ASTM D5185m	>15	0	4	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

### CONTAMINATION

There is no indication of any contamination in the oil.

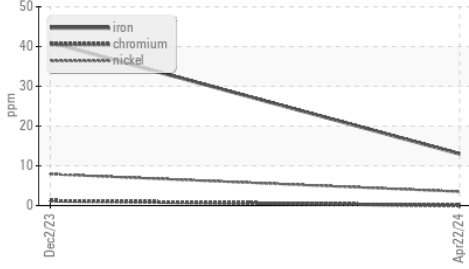
Silicon	ppm	ASTM D5185m	>25	9	▲ 47	---
Potassium	ppm	ASTM D5185m	>20	0	3	---
Fuel	%	ASTM D3524	>6.0	<1.0	0.2	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	8.3	10.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	23.9	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

### FLUID CONDITION

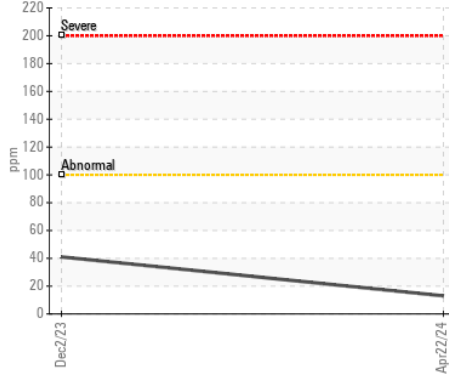
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>75	2	5	---
Boron	ppm	ASTM D5185m	250	22	5	---
Barium	ppm	ASTM D5185m	10	0	<1	---
Molybdenum	ppm	ASTM D5185m	100	51	73	---
Manganese	ppm	ASTM D5185m		<1	6	---
Magnesium	ppm	ASTM D5185m	450	462	55	---
Calcium	ppm	ASTM D5185m	3000	1986	2120	---
Phosphorus	ppm	ASTM D5185m	1150	998	916	---
Zinc	ppm	ASTM D5185m	1350	1211	1127	---
Sulfur	ppm	ASTM D5185m	4250	3628	2782	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	17.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.5	4.7	---
Visc @ 100°C	cSt	ASTM D445	10.9	12.0	10.8	---

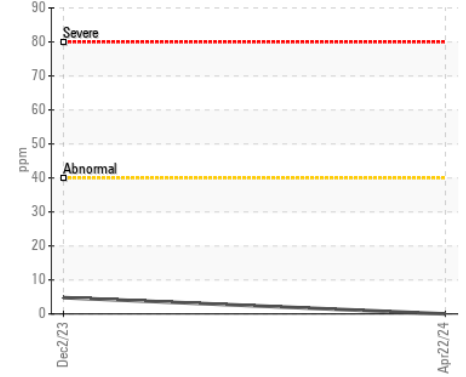
▲ Ferrous Alloys



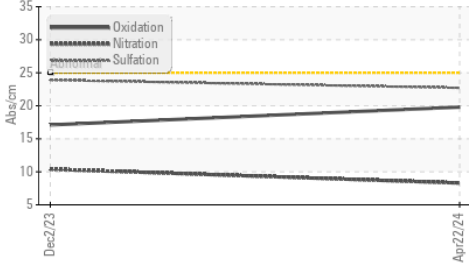
Iron (ppm)



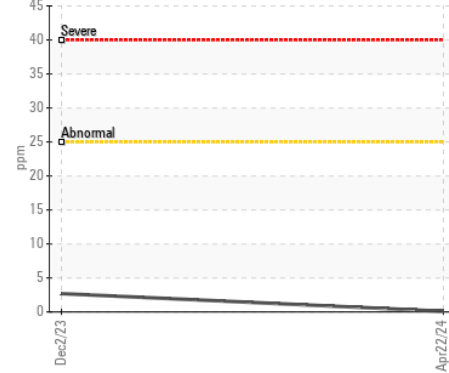
Lead (ppm)



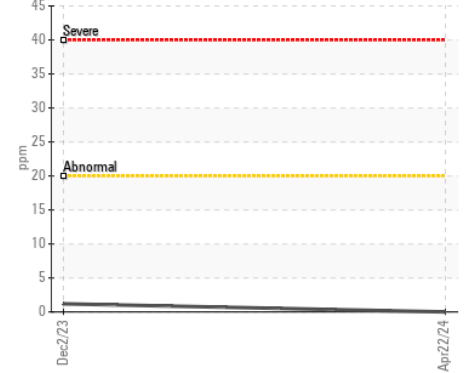
FT-IR (Direct Trend)



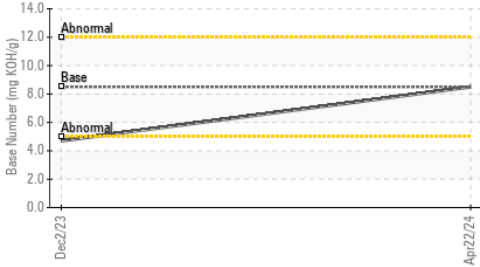
Aluminum (ppm)



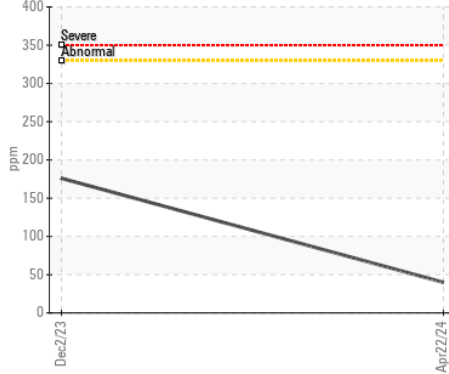
Chromium (ppm)



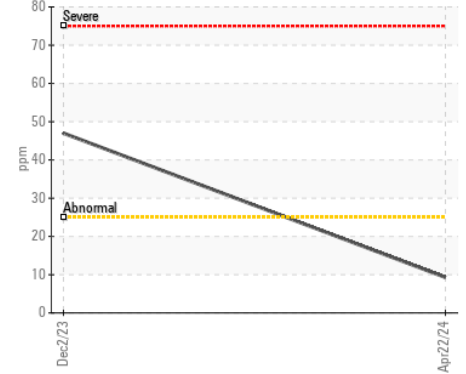
Base Number



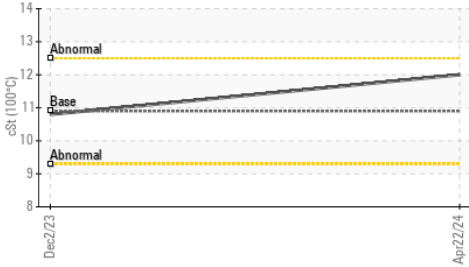
Copper (ppm)



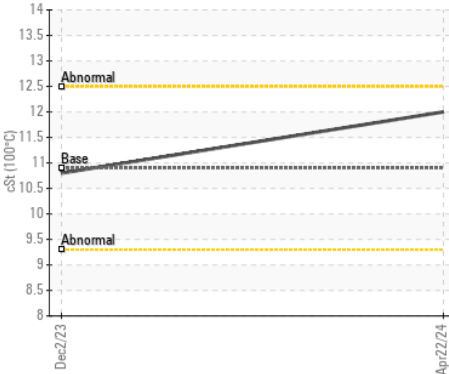
Silicon (ppm)



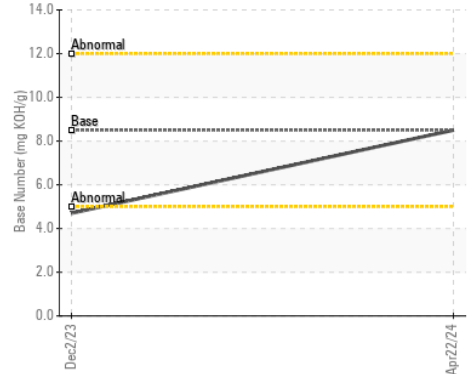
Viscosity @ 100°C



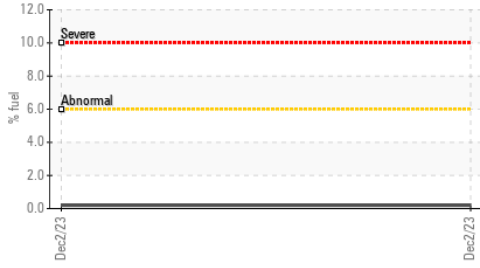
Viscosity @ 100°C



Base Number



Fuel Dilution



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP06158692 **Received** : 24 Apr 2024  
**Lab Number** : 06158692 **Tested** : 25 Apr 2024  
**Unique Number** : 10994115 **Diagnosed** : 25 Apr 2024 - Angela Borella  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, TBN )

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
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 US 33619  
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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)