



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area

[TUCKER PAVING]

Machine Id

VOLVO A25 752438

Component

Diesel Engine

Fluid

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- 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		VCP443947	VCP382852	VCP389362
Sample Date		Client Info		18 Jun 2024	22 Feb 2023	18 Oct 2022
Machine Age	hrs	Client Info		3330	1047	523
Oil Age	hrs	Client Info		0	500	500
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	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	3	10	21
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	1	3	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	6
Aluminum	ppm	ASTM D5185m	>30	2	2	3
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>20	1	▲ 186	▲ 526
Tin	ppm	ASTM D5185m	>20	0	1	3
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

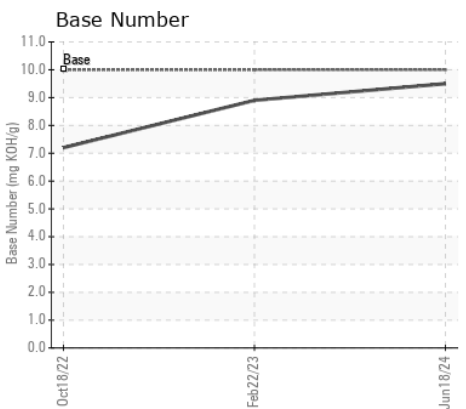
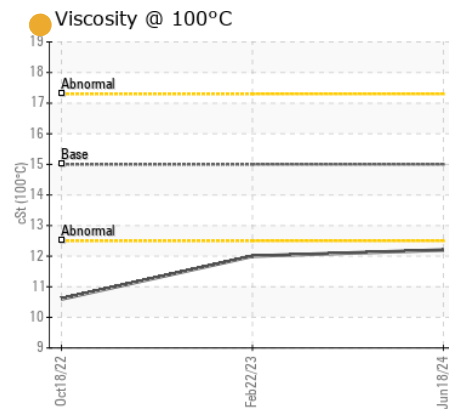
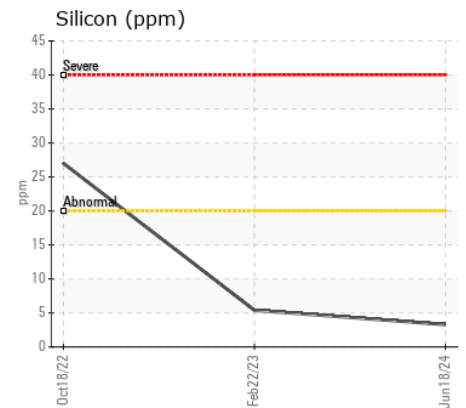
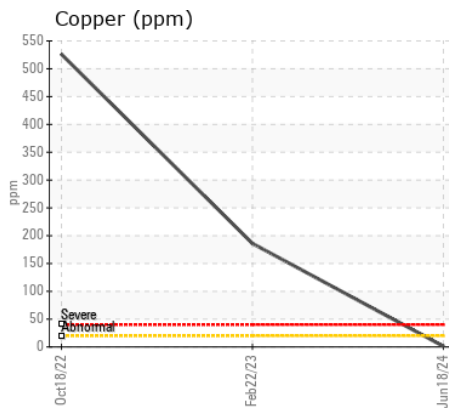
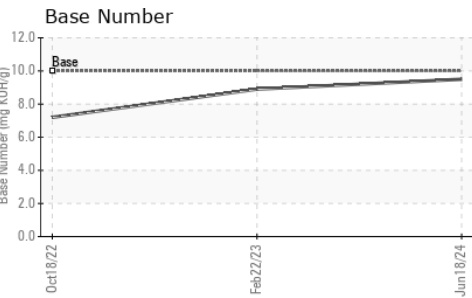
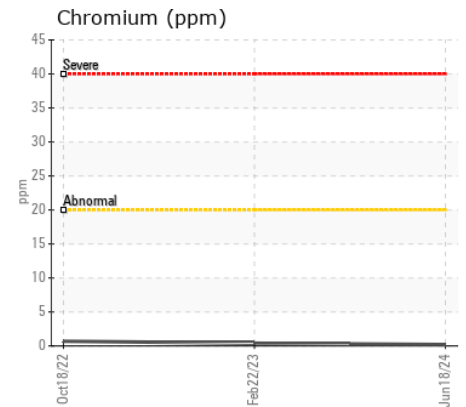
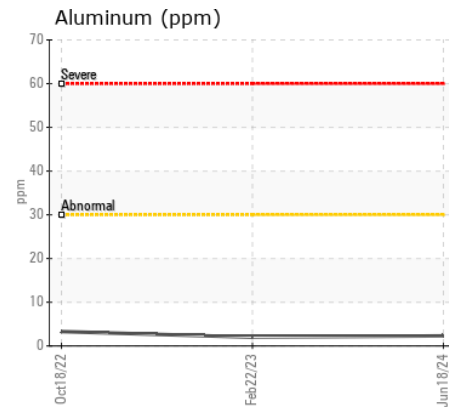
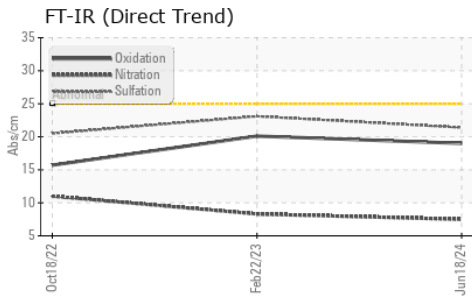
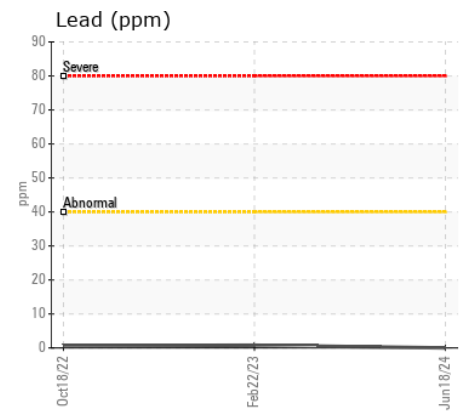
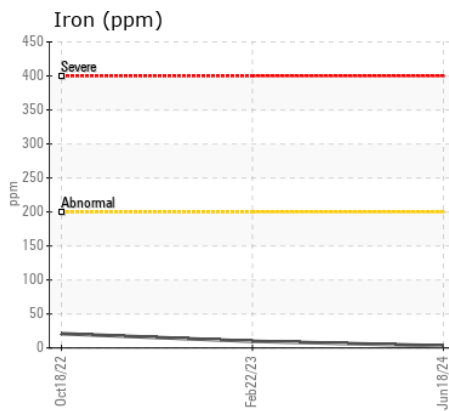
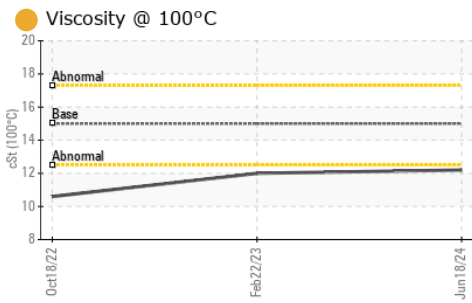
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	3	5	27
Potassium	ppm	ASTM D5185m	>20	1	2	6
Fuel		WC Method	>3.0	<1.0	<1.0	0.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.5	8.3	11
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	23.1	20.5
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. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		1	0	3
Boron	ppm	ASTM D5185m	2.5	39	25	28
Barium	ppm	ASTM D5185m	0.0	0	2	0
Molybdenum	ppm	ASTM D5185m	0.7	42	51	86
Manganese	ppm	ASTM D5185m	0.0	0	1	5
Magnesium	ppm	ASTM D5185m	256	530	430	42
Calcium	ppm	ASTM D5185m	2057	1587	1651	2237
Phosphorus	ppm	ASTM D5185m	935	919	866	1003
Zinc	ppm	ASTM D5185m	1223	1163	1087	1190
Sulfur	ppm	ASTM D5185m	4079	3021	2942	4656
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	20.1	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	10	9.5	8.9	7.2
Visc @ 100°C	cSt	ASTM D445	15.0	● 12.2	● 12.0	● 10.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP443947 **Received** : 26 Jun 2024
Lab Number : 06220755 **Tested** : 27 Jun 2024
Unique Number : 11098952 **Diagnosed** : 27 Jun 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: 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)