

# **OIL ANALYSIS REPORT**

# Sample Rating Trend







# Machine Id **VOLVO A25D 72022**

Component
Diesel Engine

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.

## Wear

All component wear rates are normal.

### Contamination

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

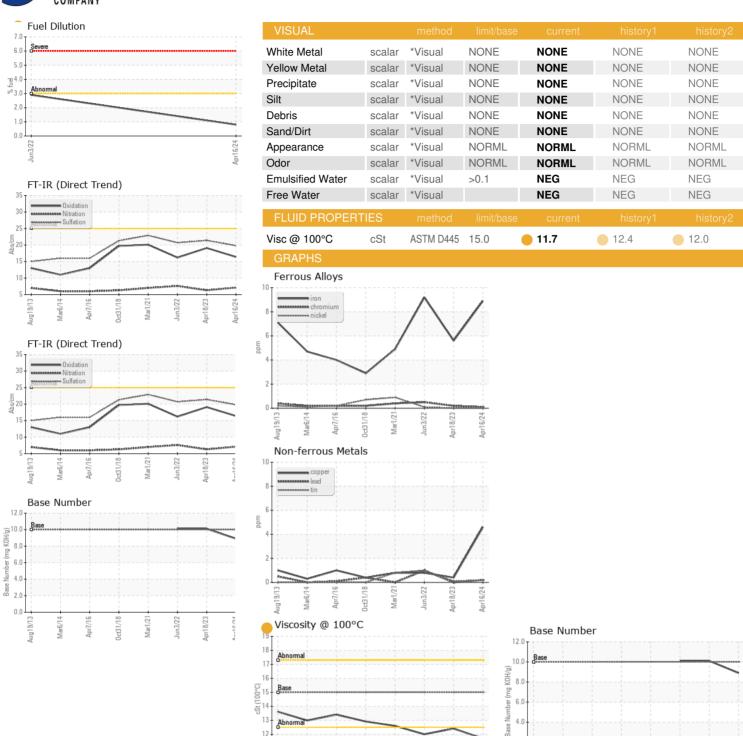
# Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

IE OIL 15W40 VDS-3 (	GAL)	Aug2013 N	Mar2014 Apr2016 Oct20	18 Mar2021 Jun2022 Apr2023	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0001423	VCP422371	VCP289679
Sample Date		Client Info		16 Apr 2024	18 Apr 2023	03 Jun 2022
Machine Age	hrs	Client Info		11479	11178	10638
Oil Age	hrs	Client Info		301	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINATION	<b>J</b>	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	9	6	9
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Γitanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	1
Aluminum	ppm	ASTM D5185m	>10	2	0	2
_ead	ppm	ASTM D5185m	>20	<1	0	1
Copper	ppm	ASTM D5185m	>15	5	<1	<1
Γin	ppm	ASTM D5185m	>10	<1	<1	1
Antimony	ppm	ASTM D5185m				
/anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2.5	45	61	10
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.7	41	39	55
Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	256	614	531	870
Calcium	ppm	ASTM D5185m	2057	1312	1789	1233
Phosphorus	ppm	ASTM D5185m	935	676	938	1010
Zinc	ppm	ASTM D5185m	1223	808	1117	1280
Sulfur	ppm	ASTM D5185m	4079	2617	3249	3324
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9	5	5
Sodium	ppm	ASTM D5185m		3	1	3
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
-uel	%	ASTM D3524	>3.0	0.8	<1.0	▲ 2.9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.1	6.3	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	21.4	20.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	19.1	16.2
Base Number (BN)	mg KOH/g		10	8.9	10.1	10.1
	99	222000				_



# **OIL ANALYSIS REPORT**







Laboratory Sample No.

: ML0001423 Lab Number : 06155557 Unique Number : 10990980

10

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 22 Apr 2024 : 25 Apr 2024 Diagnosed

: 25 Apr 2024 - Don Baldridge

0.0

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND 1345 MOUNTAIN ROAD GLEN ALLEN, VA US 23060 Contact: KYLE RATLIFFE

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

KRATLIFFE@MCCLUNG-LOGAN.COM F: (804)266-1611