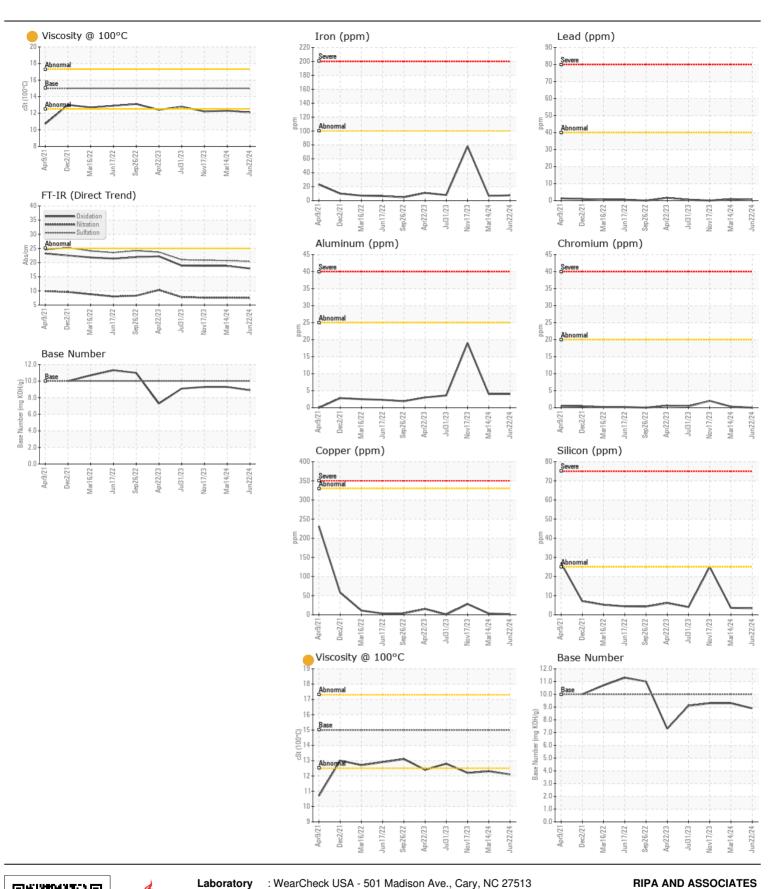


## Machine Id **VOLVO A40G 352513**

Diesel Engine

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info	21111071011	VCP443807	VCP444744	
	Sample Date		Client Info		22 Jun 2024	14 Mar 2024	17 Nov 2023
	Machine Age	hrs	Client Info		6676	6161	0
	Oil Age	hrs	Client Info		0	500	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				ATTENTION	ATTENTION	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	8	7	78
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	<1	2
	Nickel	ppm	ASTM D5185m	>2	4	3	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	4	4	<b>1</b> 9
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m	>330	2	3	<u>^</u> 28
	Tin	ppm	ASTM D5185m	>15	<1	<1	3
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<b>&gt;25</b>	3	4	<u>^</u> 25
CONTAININATION	Potassium	ppm	ASTM D5185m		2	1	29
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method	>6.0	<1.0	<1.0	1.3
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.6	7.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	20.7	20.8
	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 Shirt is the same of the shirt is the shirt in the shirt is the shirt in th	Sodium	ppm	ASTM D5185m		2	1	7
	Boron	ppm	ASTM D5185m	2.5	49	30	36
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m	0.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0.7	39	44	42
	Manganese	ppm	ASTM D5185m	0.0	<1	<1	9
	Magnesium	ppm	ASTM D5185m		509	635	557
	Calcium	ppm	ASTM D5185m		1590	1744	1613
	Phosphorus	ppm	ASTM D5185m		952	1040	771
	Zinc	ppm	ASTM D5185m		1109	1270	940
	Sulfur	ppm	ASTM D5185m		3555	3756	2269
	Oxidation	Abs/.1mm	*ASTM D7414		17.9	18.8	18.8
	Base Number (BN)				8.9	9.3	9.3
	Visc @ 100°C	cSt	ASTM D445	15.0	12.1	12.3	12.2







Certificate L2367

Laboratory Sample No.

: VCP443807 Lab Number : 06229783

Unique Number: 11113276

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

Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

: 09 Jul 2024 : 09 Jul 2024 - Sean Felton

: 08 Jul 2024

US 33619 Contact: PM Services PMServices@ripaconstruction.com

10149 FISHER AVENUE

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)

Report Id: RIPTAM [WUSCAR] 06229783 (Generated: 07/09/2024 16:11:36) Rev: 1

Contact/Location: PM Services ? - RIPTAM

T:

F:

TAMPA, FL