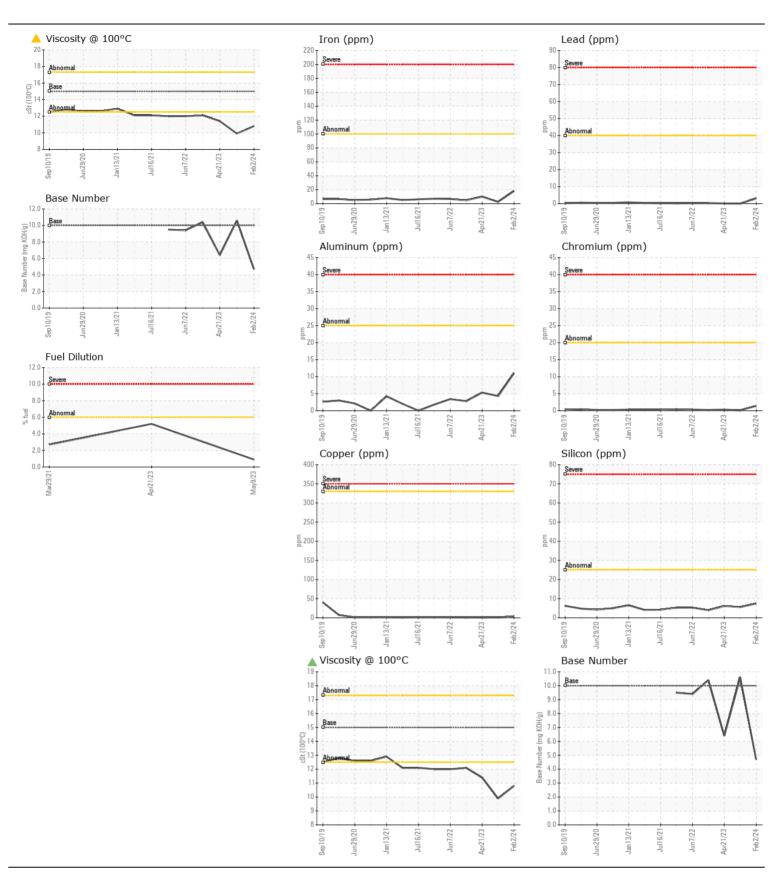
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ATTENTION

Area [661201 BCSW] VOLVO A40G 342555



RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info	21111071011	VCP439298	VCP425715	VCP40600
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		02 Feb 2024	09 May 2023	21 Apr 202
	Machine Age	hrs	Client Info		11136	9586	9562
	Oil Age	hrs	Client Info		0	20	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				ATTENTION	ATTENTION	ABNORMA
WEAR	Iron	nnm	ASTM D5185m	. 100	40	2	10
VEAN		ppm			18		
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		1	<1 0	<1
		ppm	ASTM D5185m	>2	<1	-	0
	Titanium	ppm	ASTM D5185m	0	<1	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		11	4	5
	Lead	ppm	ASTM D5185m	>40	3	0	0
	Copper	ppm	ASTM D5185m ASTM D5185m		4	<1	<1
	Tin	ppm		>15	1	<1	0
	Vanadium	ppm	ASTM D5185m	NONE	<1 NONE	0	0
	White Metal Yellow Metal	scalar scalar	*Visual	NONE	NONE NONE	NONE NONE	NONE
<u></u>		Scalai	Visuai		NONE	INOINE	INOINL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	6	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	<1	0
	Fuel	%	ASTM D3524	>6.0	<1.0	0.9	△ 5.2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.1	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	11.0	5.2	10.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.2	22.0	23.2
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	1	3
	Boron	ppm	ASTM D5185m	2.5	9	60	17
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
	Molybdenum	ppm	ASTM D5185m		41	39	43
	Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	256	445	499	514
	Calcium	ppm	ASTM D5185m	2057	1589	1654	1585
	Phosphorus	ppm	ASTM D5185m	935	789	877	850
	Zinc	ppm	ASTM D5185m	1223	1026	1103	1094
	Sulfur	ppm	ASTM D5185m		2804	3247	3008
	Oxidation	Abs/.1mm	*ASTM D7414		25.8	19.5	24.2
	Page Number (PM)	mg KOH/g	ASTM D2896	10	4.7	10.6	6.4
	Base Number (BN)	IIIg NOI I/g	AOTIVI DE000	10	7.1	10.0	0.1







Certificate L2367

Report Id: VOLVO0096 [WUSCAR] 06084153 (Generated: 02/12/2024 11:09:12) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP439298 Lab Number : 06084153

Received **Tested** Diagnosed : 08 Feb 2024

: 12 Feb 2024

Unique Number : 10871598 : 12 Feb 2024 - Don Baldridge Test Package : MOB 1 (Additional Tests: FuelDilution, TBN)

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)

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