**WEAR** CONTAMINATION **FLUID CONDITION** 

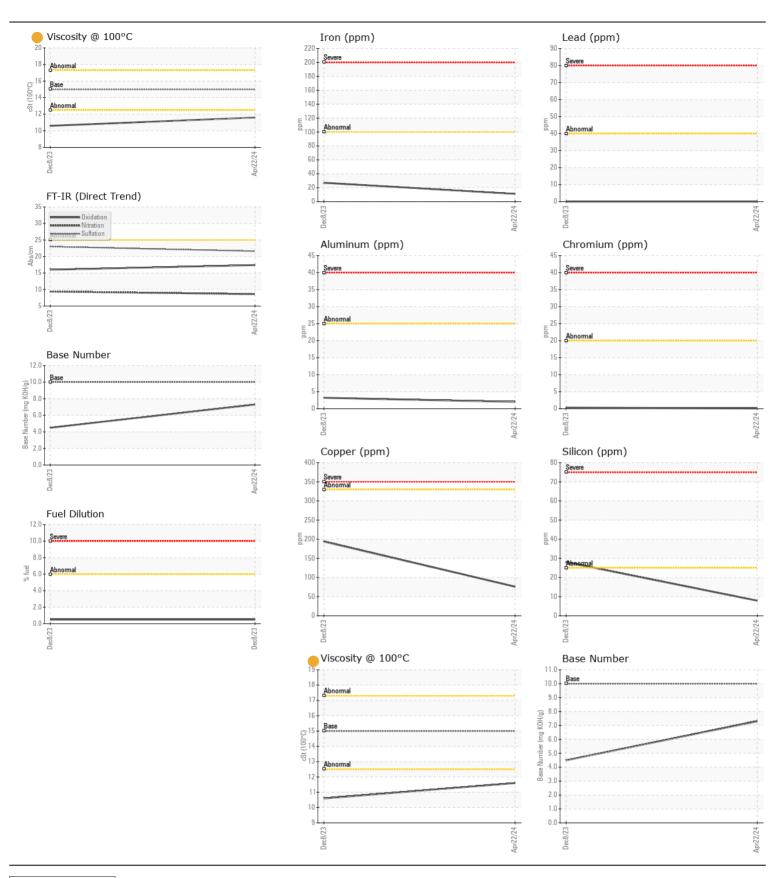
**NORMAL NORMAL ATTENTION** 

## [SWA535999]

## **VOLVO A40G 353385**



RECOMMENDATION							
	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP455206	VCP436594	
	Sample Date		Client Info		22 Apr 2024	08 Dec 2023	
	Machine Age	hrs	Client Info		1588	1012	
	Oil Age	hrs	Client Info		500	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				ATTENTION	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	11	27	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m		<1	3	
	Titanium	ppm	ASTM D5185m	_	0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m		2	3	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		76	194	
	Tin	ppm	ASTM D5185m		2	4	
	Vanadium	ppm	ASTM D5185m	7.0	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION							
	Silicon	ppm	ASTM D5185m		8	<u>^</u> 28	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	4	
	Fuel	%	ASTM D3524	>6.0	<1.0	0.5	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.2	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	9.4	
	Sulfation	Abs/.1mm	*ASTM D7415		21.6	23.0	
	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	Sodium	ppm	ASTM D5185m		2	3	
	Boron	ppm	ASTM D5185m	2.5	16	14	
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	
	Molybdenum	ppm	ASTM D5185m	0.7	54	80	
	Manganese	ppm	ASTM D5185m	0.0	1	3	
	Magnesium	ppm	ASTM D5185m	256	606	81	
	Calcium	ppm	ASTM D5185m	2057	1528	2008	
	Phosphorus	ppm	ASTM D5185m	935	945	973	
	Zinc	ppm	ASTM D5185m	1223	1122	1189	
	Sulfur	ppm	ASTM D5185m	4079	3176	3368	
		A la a / d	*ASTM D7414	<b>\25</b>	17.4	16.0	
	Oxidation	Abs/.1mm	A311VI D7414	725		10.0	
	Oxidation Base Number (BN)		ASTM D2896		7.3	4.5	





Certificate L2367

Laboratory Sample No.

: VCP455206 Lab Number : 06157355

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

**Tested** Unique Number: 10992778 Test Package : MOB 1 (Additional Tests: FuelDilution, TBN)

Received Diagnosed

: 23 Apr 2024 : 24 Apr 2024

: 25 Apr 2024 - Jonathan Hester

**ALTA EQUIPMENT COMPANY** 5151 DR MARTIN LUTHER KING BLVD FORT MYERS, FL

Contact/Location: TODD LARK - VOLVO0090

US 33905 Contact: TODD LARK tlark@altaequipfl.com

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)

F: (239)481-3302