

Machine Id

## VOLVO A40G 353033

Front Axle

VOLVO SUPER GEAR OIL 75W-80-GO102 (--- GAL)

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

**WEAR** 

Gear wear is indicated.

## CONTAMINATION

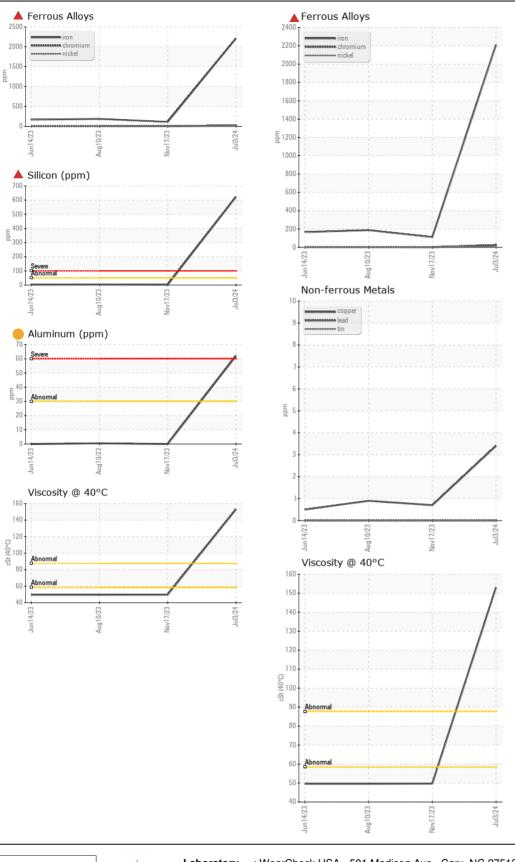
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

FLUID		

The oil is no longer serviceable due to the presence of contaminants.

<b>T</b>	11014	Markle 1	1.5		1.12.1.1.1.1	
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0009013	ASC0002610	VCP410410
Sample Date		Client Info		03 Jul 2024	17 Nov 2023	10 Aug 2023
Machine Age	hrs	Client Info		4015	2964	2626
Oil Age	hrs	Client Info		4015	2964	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Chango
Filter Changed		Client Info		N/A	N/A	Not Chango
Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>900	<b>2210</b>	111	188
Chromium	ppm	ASTM D5185m	>20	<b>A</b> 25	1	3
Nickel	ppm	ASTM D5185m	>10	2	0	<1
Titanium	ppm	ASTM D5185m		7	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	62	0	<1
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>150	3	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	<b>▲</b> 623	2	3
Potassium	ppm	ASTM D5185m	>20	15	1	2
Water	1-1-			NEO	NEG	NEG
		WC Method	>0.2	NEG	NEG	INLO
Silt	scalar		>0.2 NONE	NEG NONE		
Silt Debris	scalar scalar	*Visual	NONE	NONE	MODER	LIGHT
	scalar	*Visual *Visual		NONE	MODER	LIGHT
Debris Sand/Dirt	scalar scalar	*Visual	NONE NONE	NONE	MODER NONE	LIGHT NONE NONE
Debris	scalar	*Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE	MODER NONE NONE	LIGHT NONE NONE NORML
Debris Sand/Dirt Appearance	scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NORML	NONE NONE NONE NORML	MODER NONE NONE NORML	LIGHT NONE NONE NORML
Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML	NONE NONE NORE NORML NORML NEG	MODER NONE NONE NORML NORML NEG	LIGHT NONE NORE NORM
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2	MODER NONE NORML NORML NEG 2	LIGHT NONE NONE NORML NORML NEG
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 106	MODER NONE NORML NORML NEG 2 268	LIGHT NONE NORMI NORMI NEG 0 325
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 106 0	MODER NONE NORML NORML NEG 2 268 0	LIGHT NONE NORML NORML NEG 0 325 2
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 106 0 3	MODER NONE NORML NORML NEG 2 268 0 3	LIGHT NONE NORML NORML NEG 0 325 2 5
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 106 0 3 19	MODER NONE NORML NORML NEG 2 268 0 3 3 3	LIGHT NONE NORMI NORMI NEG 0 325 2 5 5
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 106 0 3 19 5	MODER NONE NORML NORML NEG 2 268 0 3 3 3 0	LIGHT NONE NORMI NORMI NEG 0 325 2 5 5 5 1
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 106 0 3 19 5 134	MODER NONE NORML NORML NEG 2 268 0 3 3 0 3 0 3 3 0 3 0	LIGHT NONE NORMI NORMI NEG 0 325 2 5 5 5 1 27
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Maganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 106 0 3 19 5 134 895	MODER NONE NORML NORML NEG 2 268 0 3 3 3 0 30 30 2366	LIGHT NONE NORMI NORMI NEG 0 325 2 5 5 5 1 27 27 2444
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 106 0 3 19 5 134 895 29	MODER NONE NORML NORML NEG 2 268 0 3 3 3 0 30 2366 20	LIGHT NONE NORML NORML NEG 0 325 2 5 5 5 1 27 2444 19
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Maganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 106 0 3 19 5 134 895	MODER NONE NORML NORML NEG 2 268 0 3 3 3 0 30 30 2366	LIGHT NONE NORML NORML NEG 0 325 2 5 5 5 1 27 27 2444

Submitted By: GAGE PARRISH



**117 - ASCENDUM MACHINERY INC - GREENVILLE** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : ASC0009013 Received 2002 N GREENE ST : 16 Jul 2024 Lab Number : 06238612 GREENVILLE, NC Tested : 17 Jul 2024 Unique Number : 11127446 Diagnosed : 18 Jul 2024 - Sean Felton US 27834 Test Package : CONST Contact: ALLEN WILLIAMS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. allen.williams@ascendummachinery.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)494-8197

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