**WEAR CONTAMINATION FLUID CONDITION** 

**SEVERE SEVERE ATTENTION** 

## [BABCOCK RANCH] **VOLVO A45G 352808**

Rear Axle

VOLVO PREMIUM GEAR OIL 8	5W-140 GL-	5 ( (	GAL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number	OOW	Client Info	LITTIU/ADIT	VCP436718	VCP436142	
	Sample Date		Client Info		19 Apr 2024	17 Feb 2024	
	Machine Age	hrs	Client Info		4322	4096	
	Oil Age	hrs	Client Info		322	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status				SEVERE	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>900	<b>12417</b>	668	
The iron, chrome and nickel levels are severe. Gear wear is indicated.	Chromium	ppm	ASTM D5185m	>20	<b>169</b>	8	
	Nickel	ppm	ASTM D5185m	>10	<b>A</b> 77	3	
	Titanium	ppm	ASTM D5185m		126	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>30	<b>868</b>	6	
	Lead	ppm	ASTM D5185m	>50	3	0	
	Copper	ppm	ASTM D5185m	>150	98	6	
	Tin	ppm	ASTM D5185m	>20	0	<1	
	Vanadium	ppm	ASTM D5185m		4	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	▲ 9857	42	
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. There is a very high concentration of water present in the oil.	Potassium	ppm	ASTM D5185m	>20	45	3	
	Water	%	ASTM D6304	>0.2	▲ 29.2		
	ppm Water	ppm	ASTM D6304	>2000	<b>292000</b>		
	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	<b>1</b> 0.2%	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		8	2	
The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	111	71	131	
	Barium	ppm	ASTM D5185m	0.0	0	0	
	Molybdenum	ppm	ASTM D5185m	0.9	13	9	
	Manganese	ppm	ASTM D5185m		99	19	
	Magnesium	ppm	ASTM D5185m		122	0	
	Calcium	ppm	ASTM D5185m		520	84	
	Phosphorus	ppm	ASTM D5185m		754	2355	
	Zinc	ppm	ASTM D5185m		137	56	
	Sulfur	ppm	ASTM D5185m	20179	20724	25964	

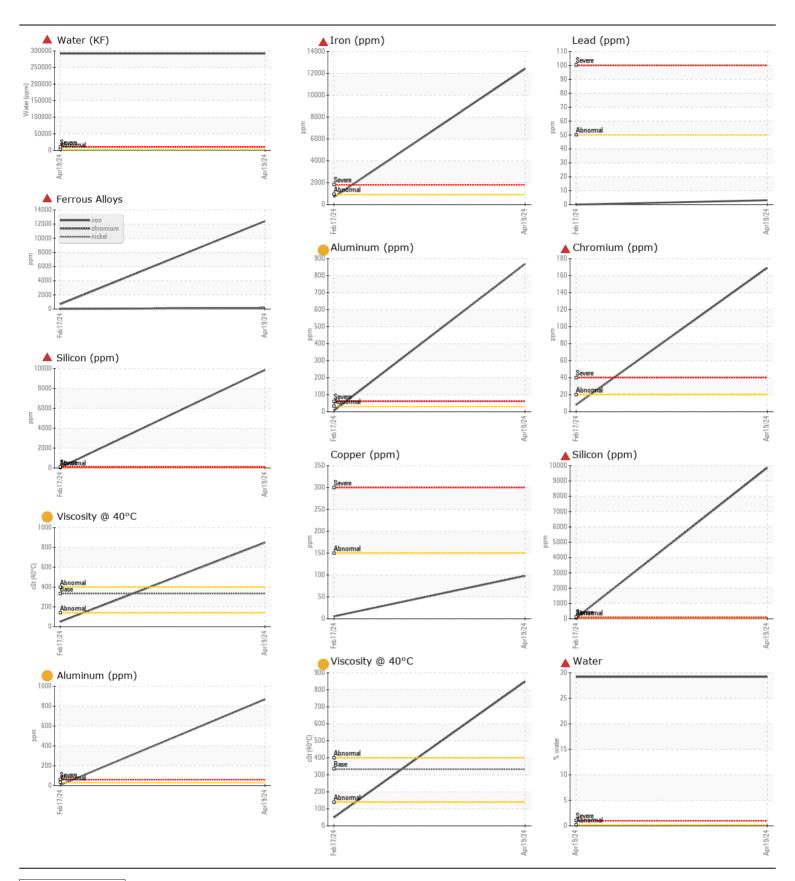
Visc @ 40°C

cSt

ASTM D445 333

49.6

848





Certificate L2367

Laboratory Unique Number: 10993486

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : VCP436718 : 06158063 Lab Number

Received **Tested** Diagnosed Test Package: MOB 1 (Additional Tests: KF)

: 23 Apr 2024 : 24 Apr 2024

: 25 Apr 2024 - Don Baldridge

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

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.

F: (239)481-3302 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: