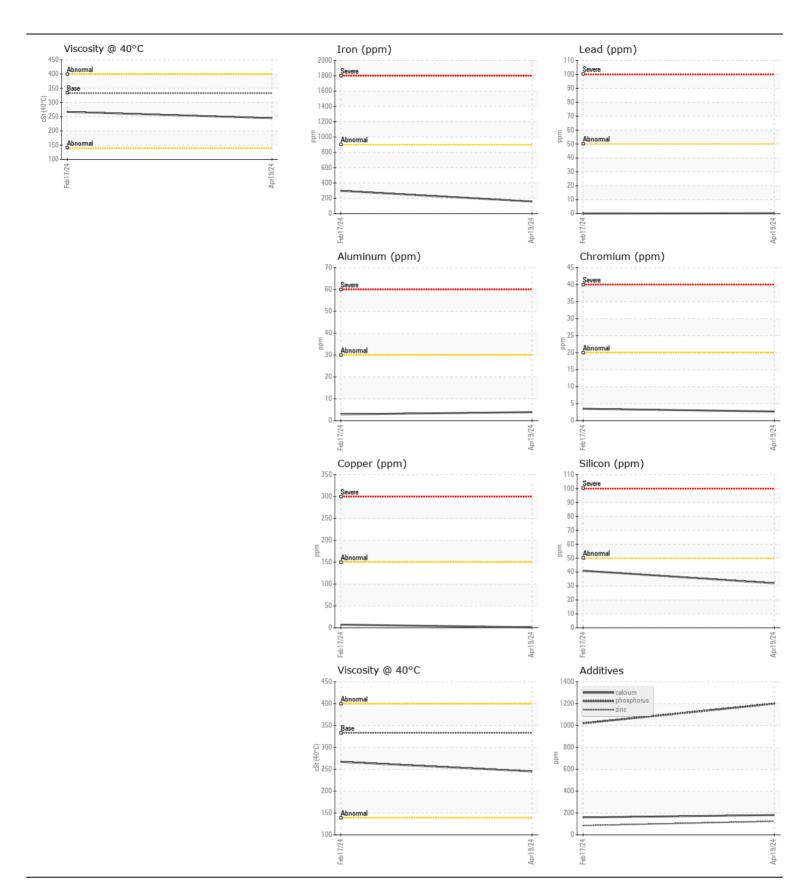
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

[BABCOCK RANCH] **VOLVO A45G 352808**

Bogie/Center Axle

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP436720	VCP439052	
	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				NORMAL	ABNORMAL	
WEAD							
WEAR	Iron	ppm	ASTM D5185m		157	297	
	Chromium	ppm	ASTM D5185m		3	4	
	Nickel	ppm	ASTM D5185m	>10	1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		4	3	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m		1	7	
	Tin	ppm	ASTM D5185m	>20	<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION							
CONTAMINATION	Silicon	nnm	ASTM D5185m	>50	32	41	
CONTAMINATION	Silicon	ppm	ASTM D5185m		32 1	41 0	
CONTAMINATION	Potassium	ppm	ASTM D5185m	>20	1	0	
CONTAMINATION	Potassium Water	ppm	ASTM D5185m WC Method	>20 >0.2	1 NEG	0 NEG	
CONTAMINATION	Potassium Water Silt	ppm	ASTM D5185m WC Method *Visual	>20 >0.2 NONE	1 NEG NONE	0 NEG NONE	
CONTAMINATION	Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE	1 NEG NONE NONE	0 NEG NONE HEAVY	
CONTAMINATION	Potassium Water Silt Debris Sand/Dirt	scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE NONE	1 NEG NONE NONE	0 NEG NONE HEAVY NONE	
CONTAMINATION	Potassium Water Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE NORML	1 NEG NONE NONE NONE	0 NEG NONE ▲ HEAVY NONE NORML	
CONTAMINATION	Potassium Water Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORML	1 NEG NONE NONE NONE NORML	0 NEG NONE HEAVY NONE NORML	
	Potassium Water Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE NORML	1 NEG NONE NONE NONE	0 NEG NONE ▲ HEAVY NONE NORML	
CONTAMINATION FLUID CONDITION	Potassium Water Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORML	1 NEG NONE NONE NONE NORML	0 NEG NONE HEAVY NONE NORML	
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORE NORML NORML >0.2	1 NEG NONE NONE NONE NORML NORML NEG	0 NEG NONE HEAVY NONE NORML NORML NEG	
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	1 NEG NONE NONE NORML NORML NEG	0 NEG NONE HEAVY NONE NORML NORML NEG	
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	1 NEG NONE NONE NORML NORML NEG 1 209	0 NEG NONE HEAVY NONE NORML NORML NEG <1 181	
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	1 NEG NONE NONE NORML NORML NEG 1 209	0 NEG NONE → HEAVY NONE NORML NORML NEG <1 181 0	
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	1 NEG NONE NONE NORML NORML NEG 1 209 0 10	0 NEG NONE → HEAVY NONE NORML NORML NEG <1 181 0 6	
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *Tisual *Visual *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	1 NEG NONE NONE NORML NORML NEG 1 209 0 10 3	0 NEG NONE HEAVY NONE NORML NORML NEG <1 181 0 6 4	
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *Tisual *Visual *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2 1111 0.0 0.9 0.0 39 93	1 NEG NONE NONE NORML NORML NEG 1 209 0 10 3 60	0 NEG NONE NONE NORML NORML NEG <1 181 0 6 4 18	
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar sppm ppm ppm ppm ppm ppm ppm ppm ppm pp	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML >0.2 1111 0.0 0.9 0.0 39 93	1 NEG NONE NONE NORML NORML NEG 1 209 0 10 3 60 181	0 NEG NONE HEAVY NONE NORML NORML NEG <1 181 0 6 4 18 160	
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *Visual *ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2 1111 0.0 0.9 0.0 39 93 920 104	1 NEG NONE NONE NORML NORML NEG 1 209 0 10 3 60 181 1200	0 NEG NONE NONE NORML NORML NEG <1 181 0 6 4 18 160 1020	
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar scalar scalar scalar sppm ppm ppm ppm ppm ppm ppm ppm ppm pp	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *Visual *ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2 1111 0.0 0.9 0.0 39 93 920 104 20179	1 NEG NONE NONE NORML NORML NEG 1 209 0 10 3 60 181 1200 124	0 NEG NONE → HEAVY NONE NORML NORML NEG <1 181 0 6 4 18 160 1020 85	







Certificate L2367

Laboratory Sample No.

: VCP436720 Lab Number : 06158064 Unique Number : 10993487

Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Apr 2024 **Tested**

: 24 Apr 2024 Diagnosed : 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 T:

F: (239)481-3302

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)