WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

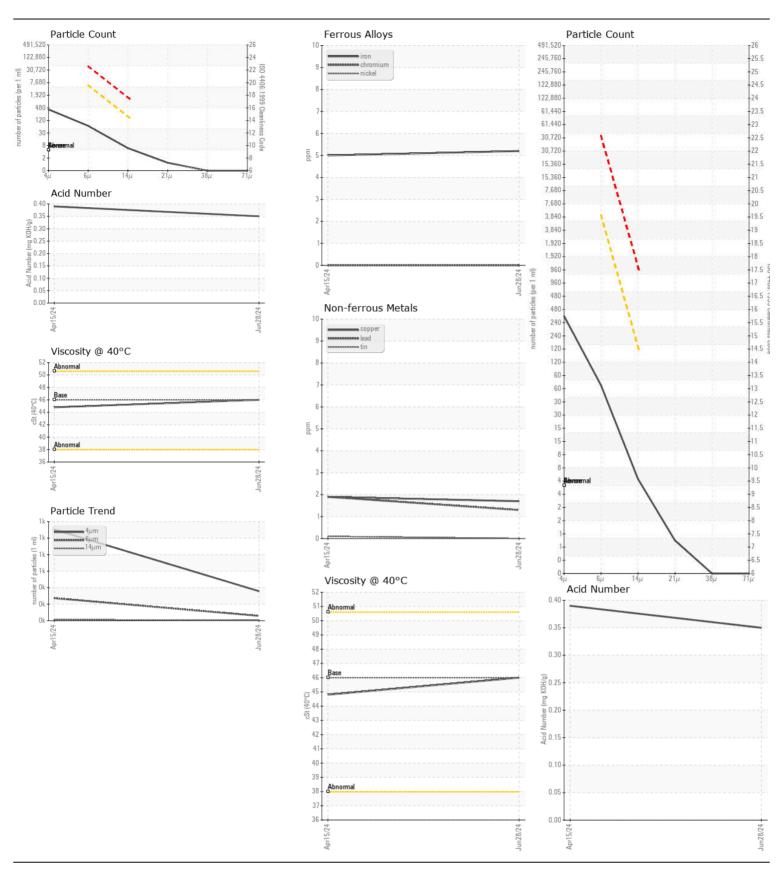


## VOLVO A45G 342398

Hydraulic System

**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)** 

VOLVO SUPER HIDRAULIC C		· <del>-</del> /					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ML0002623	ML0001506	
	Sample Date		Client Info		28 Jun 2024	15 Apr 2024	
	Machine Age	hrs	Client Info		7961	7441	
	Oil Age	hrs	Client Info		520	3400	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	<u>~50</u>	5	5	
	Chromium	ppm	ASTM D5185m		0	0	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	>10	0	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>20	2	2	
	Lead	ppm	ASTM D5185m		1	2	
	Copper	ppm	ASTM D5185m		2	2	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		2	4	
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	2	
	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647		357	1105	
	Particles >6µm		ASTM D7647		58 -	273	
	Particles >14µm		ASTM D7647		5	13	
	Particles >21µm		ASTM D7647		1	2	
	Particles >38µm		ASTM D7647		0	0	
	Particles >71µm Oil Cleanliness		ASTM D7647		0		
	Silt	scalar	ISO 4406 (c) *Visual	>/19/14 NONE	16/13/10 NONE	17/15/11 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		*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	4	
The AN level is acceptable for this fluid. The condition of the cit is	Boron	ppm	ASTM D5185m		4	4	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		2	1	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		15	19	
	Calcium	ppm	ASTM D5185m		172	199	
	Phosphorus	ppm	ASTM D5185m		378	391	
	Zinc	ppm	ASTM D5185m		483	484	
	Sulfur	ppm	ASTM D5185m	3719	1550	1653	
	Acid Number (AN)	mg KOH/g	ASTM D8045	10	0.35	0.39	
	Visc @ 40°C	cSt	ASTM D445	46	46.0	44.8	





Certificate L2367

Laboratory Sample No.

Lab Number : 06229093 Unique Number: 11112586

: ML0002623 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Jul 2024 **Tested** 

: 09 Jul 2024 : 09 Jul 2024 - Jonathan Hester Diagnosed

MCCLUNG-LOGAN EQUIPMENT CO - BALTIMORE 4601 WASHINGTON BOULEVARD

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US 21227 Contact: MARK CIULLA mciulla@mcclung-logan.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)