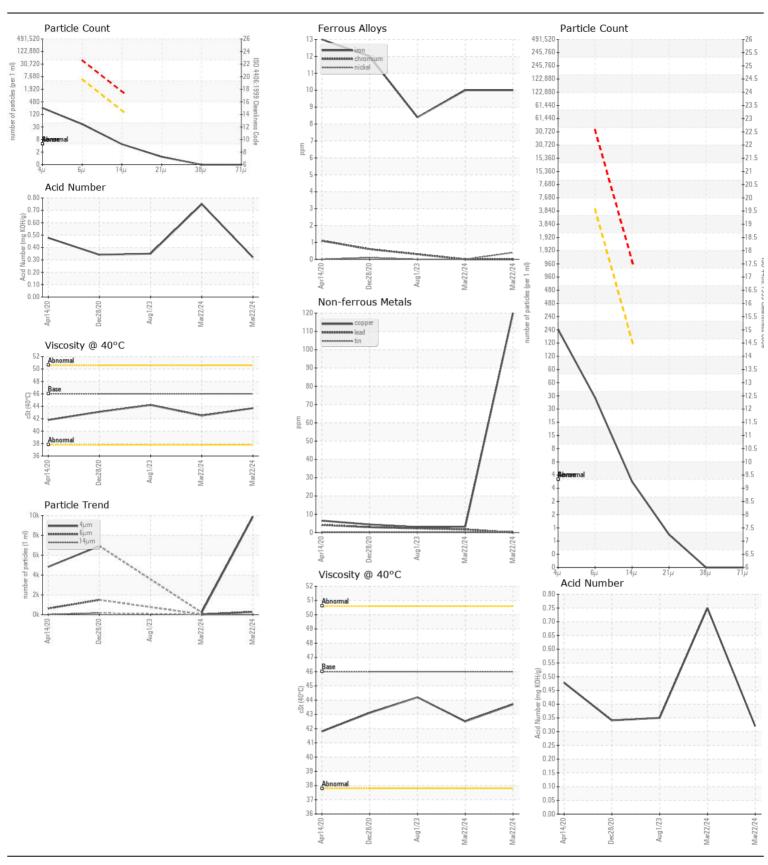


Machine Id **VOLVO A40G 342176**

Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

Test UOM Method Um/but Current VoePs7070	VOLVO SUPER HYDRAULIC OIL 46 (GAL)								
Resample at the next service interval to monitor. Sample Date Client Info Sample Date Samp	RECOMMENDATION	Test	HOM	Method	Limit/Ahn	Current	History1	History2	
Sample 2 Sample 2	TEOOMMENDATION		OOW		Littleyton		,		
Machino Age Inta	Resample at the next service interval to monitor.								
Oil Age hrs Cilent Info O O O O O O O O O			hrs						
Filter Age Not Changed Cilent Info Changed Changed		•							
Oil Changed Cilient Info Changed Cilient Info Changed Nat C									
Filter Changed Sample Status Client Info Changed Changed Not Changed AND CRMAL ARNORMAL		•							
Name		_		Client Info					
All component wear rates are normal. Chromium ppm ASTM D5185m > 0						NORMAL			
All component wear rates are normal. Chromium ppm ASTM D5185m > 0									
Nickel ppm ASTM DS185m 0 0 0 0 0 0 0 0 0	WEAR								
Titanium ppm ASTM M5165m 0	All component wear rates are normal.		ppm						
Silver ppm ASTM D5185m 20 1 1 1 1 1 1 1 1 1					>10				
Aluminum ppm ASTM D8185m >20 1 1 <1 <1 <1 <1 <1 <1									
Lead ppm ASTM D588m >20 2 0 2					0.0		0		
Copper							1		
Tin									
Vanadium ppm ASTM D5185m NONE NON									
White Metal Scalar Visual NONE NO					>20				
Yellow Metal Scalar *Visual NONE NONE NONE NONE					NONE	-			
Silicon ppm ASTM D5185m >20 4 11 3									
Potassium ppm ASTM D5185m ≥20 ≥2 <1 2 2 2 2 4 2 2 2 4 2 2		reliow Metal	Scalar	Visuai	INOINE	NONE	NONE	NONE	
Potassium ppm ASTM D5185m ≥20 ≥2 <1 2 2 2 2 4 2 2 2 4 2 2	CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4	11	3	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	30117 timility trioit			ASTM D5185m	>20	2	<1		
Particles >4µm	, , , ,	Water		WC Method	>0.1	NEG	NEG	NEG	
Particles >6μm ASTM D7647 >5000 36 280 Particles >14μm ASTM D7647 >160 4 11 Particles >21μm ASTM D7647 >40 1 3 Particles >38μm ASTM D7647 >10 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 0 0 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 0 0 0 0 0 0		Particles >4µm		ASTM D7647		215	9899		
Particles >21µm ASTM D7647 >40 1 3 3 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D5185m NORM N		Particles >6µm		ASTM D7647	>5000	36	280		
Particles >38μm ASTM D7647 >10 0 0 0 0 0 0 0 0 0		Particles >14μm		ASTM D7647	>160	4	11		
Particles > 71 µm		Particles >21µm		ASTM D7647	>40	1	3		
Oil Cleanliness ISO 4406 (c) >-/19/14 15/12/9 20/15/11				ASTM D7647	>10	0	0		
Silt scalar *Visual NONE NORML						0			
Debris Scalar *Visual NONE NORML					>/19/14		20/15/11		
Sand/Dirt Scalar *Visual NONE NONE NONE NONE Appearance Scalar *Visual NORML N			scalar						
Appearance									
Odor									
Emulsified Water scalar *Visual >0.1 NEG NEG NEG									
Sodium ppm ASTM D5185m 14 0 122 0									
Boron ppm ASTM D5185m 14 0 122 0		Emuisilied water	scalar	visuai	>0.1	NEG	NEG	NEG	
Boron ppm ASTM D5185m 14 0 122 0	FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	4	3	
Barium ppm ASTM D5185m 0.0 0 <1 0		Boron		ASTM D5185m	14		122		
Molybdenum ppm ASTM D5185m 0.0 <1	·			ASTM D5185m	0.0	0		0	
Manganese ppm ASTM D5185m 0.0 <1				ASTM D5185m	0.0	<1	<1	<1	
Magnesium ppm ASTM D5185m 2.6 7 21 7 Calcium ppm ASTM D5185m 49 60 3598 61 Phosphorus ppm ASTM D5185m 354 321 1222 334 Zinc ppm ASTM D5185m 419 415 1506 407 Sulfur ppm ASTM D5185m 3719 2365 4079 2384 Acid Number (AN) mg KOH/g ASTM D8045 0.32 0.75 0.35		Manganese							
Phosphorus ppm ASTM D5185m 354 321 1222 334 Zinc ppm ASTM D5185m 419 415 1506 407 Sulfur ppm ASTM D5185m 3719 2365 4079 2384 Acid Number (AN) mg KOH/g ASTM D8045 0.32 0.75 0.35		Magnesium	ppm	ASTM D5185m	2.6	7	21	7	
Zinc ppm ASTM D5185m 419 415 1506 407 Sulfur ppm ASTM D5185m 3719 2365 4079 2384 Acid Number (AN) mg KOH/g ASTM D8045 0.32 0.75 0.35		Calcium	ppm	ASTM D5185m	49	60	3598	61	
Sulfur ppm ASTM D5185m 3719 2365 4079 2384 Acid Number (AN) mg KOH/g ASTM D8045 0.32 0.75 0.35		Phosphorus	ppm	ASTM D5185m	354	321	1222	334	
Acid Number (AN) mg KOH/g ASTM D8045 0.32 0.75 0.35			ppm			415	1506		
		Sulfur			3719	2365			
Visc @ 40°C cSt ASTM D445 46 43.7 42.5 44.2		. ,							
		Visc @ 40°C	cSt	ASTM D445	46	43.7	42.5	44.2	





Certificate L2367

Laboratory Sample No.

: VCP437072 Lab Number : 06187582 Unique Number : 11044334 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 May 2024 **Tested** : 23 May 2024 Diagnosed

: 23 May 2024 - Wes Davis

RIPA AND ASSOCIATES 10149 FISHER AVENUE TAMPA, FL

US 33619 Contact: PM Services

PMServices@ripaconstruction.com T:

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)

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