WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

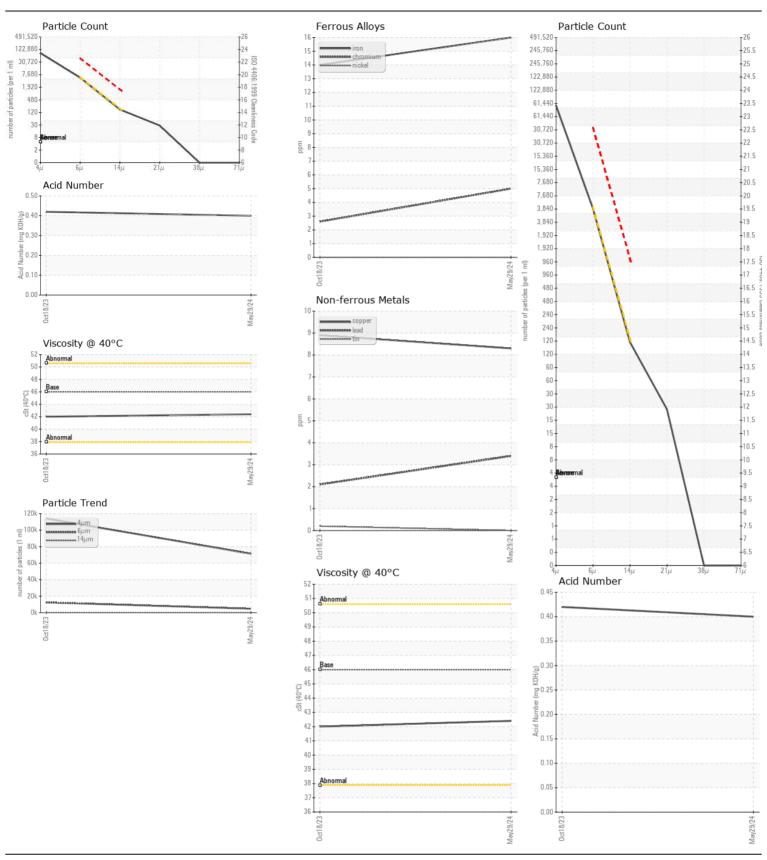


## Wachine Id VOLVO A45GFS 352466

Hydraulic System

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

Resample at the next service interval to monitor.	VOLVO GOI EITITIDIAGEIO		<b>ʻ</b>					
Resample at the next service interval to monitor.   Sample Date   Client Info   Machine Age   Machine Age   Mrs   Client Info   Machine Age   Mrs   Client Info   Machine Age   Mrs   Client Info   Mrs	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Page   No. Clear Hind   Sample   Sample Page   No. Clear Hind   Sample   Sample Page   No. Clear Hind   Sample   No. Clear Hind   Sample   No. Clear Hind   No. Clear Hind   No. Clear Hind   No.		Sample Number		Client Info		ASC0011010	VCP440747	
Oil Age		Sample Date		Client Info		29 May 2024	18 Oct 2023	
Filter Age		Machine Age	hrs	Client Info		3913	3241	
Di Changed   Cilent Info   NA NA Not Changed   Sample Status   Cilent Info   NA NA NORMAL   NORMAL   Changed   Cilent Info   NA NA NORMAL   Changed   Cilent Info   NA NORMAL   NORMAL   Changed   Cilent Info   NA NORMAL   Changed   Cilent Info   Changed   Cilent Info   NA NORMAL   Changed   Cilent Info   Changed   Chang		Oil Age	hrs	Client Info		3913	0	
Filter Changed   Sample Status   Sample Status   No   Changed   No   Changed   No   No   No   No   No   No   No   N		•	hrs			0	0	
Normal   N		-					Ü	
Iron				Client Info			_	
All component wear rates are normal.    Chromium   ppm   ASTM (26186m   > 20   5   0   0   0   1   1   2   1   1   1   1   1   1   1		Sample Status				NORMAL	ABNORMAL	
All component wear rates are normal.    Chromium   ppm   ASTM (26186m   > 20   5   0   0   0   1   1   2   1   1   1   1   1   1   1	VEAD	Iron	nnm	ACTM DE10Em	. EO	16	1./	
Nickel   ppm   ASTM DS185m   10   0   0   0   1	WEAR							
Titanium   ppm   ASTM D5185m   2   2   0   0   0   0   0   0   0   0	All component wear rates are normal.							
Silver   ppm   ASTM D5185m   >20   1   2					>10			
Aluminum   ppm   ASTM D5185m   >20   1   2								
Lead					<b>&gt;20</b>			
Copper   ppm   ASTM D5185m   >150   8   9								
Tin								
Vanadium   ppm   ASTM D5185m   Vanadium   ppm   ASTM D5185m   Valued   NONE						-		
White Metal   Scalar   Visual   NONE   N					720			
Vellow Metal   scalar   Visual   NONE					NONE		-	
Silicon   ppm   ASTM D5185m   >20   5   6						_		
Potassium   ppm   ASTM D5185m   ≥20   0   2								
Potassium   ppm   ASTM D5185m   ≥20   0   2	CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	6	
Cleanliness code. The system and fluid cleanliness is acceptable.		Potassium	ppm	ASTM D5185m	>20	0	2	
Particles > 6µm   ASTM D7647   5000   4783   12424		Water		WC Method	>0.1	NEG	NEG	
Particles >14μm   ASTM D7647   >160   145   162     Particles >21μm   ASTM D7647   >40   25   33     Particles >38μm   ASTM D7647   >10   0   1     Particles >71μm   ASTM D7647   >3   0   0     Oil Cleanliness   ISO 4406 (c)   >19/14   23/19/14   Δ   24/21/15     Silt   scalar   *Visual   NONE   NO		Particles >4µm		ASTM D7647		71338	114067	
Particles > 21 µm		Particles >6µm		ASTM D7647	>5000	4783	<u> </u>	
Particles >38μm   ASTM D7647   >10   0   1		Particles >14μm		ASTM D7647	>160	145	<b>162</b>	
Particles >71 μm		Particles >21μm		ASTM D7647	>40	25	33	
Oil Cleanliness   ISO 4406 (c)   >/19/14   23/19/14   24/21/15								
Silt   Scalar *Visual   NONE   NONE   NONE   NONE   NONE   NONE   NONE   NONE   Sand/Dirt   Scalar *Visual   NONE   NORE   NONE   NORE   NONE   NORE   NONE   NORE   NOR						-		
Debris   Scalar   *Visual   NONE   NONE   NONE   Sand/Dirt   Scalar   *Visual   NONE   NORML				. ,				
Sand/Dirt   scalar   *Visual   NONE   NONE   NORML								
Appearance		_ 0.0.1.0						
Odor   Scalar *Visual   NORML   NORML   NORML   Emulsified Water   Scalar *Visual   >0.1   NEG   NEG								
Emulsified Water   scalar   *Visual   >0.1   NEG   NEG								
Sodium   ppm   ASTM D5185m   14   0   0   0   0								
Boron   ppm   ASTM D5185m   14   0   0   0		Emuisined water	Scalar	visual	>0.1	NEG	INEG	
Boron   ppm   ASTM D5185m   14   0   0   0	I UID CONDITION	Sodium	maa	ASTM D5185m		2	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.    Barium   ppm   ASTM D5185m   0.0   <1   <1					14			
Molybdenum         ppm         ASTM D5185m         0.0         <1	•							
Manganese         ppm         ASTM D5185m         0.0         <1								
Magnesium         ppm         ASTM D5185m         2.6         3         3            Calcium         ppm         ASTM D5185m         49         241         162            Phosphorus         ppm         ASTM D5185m         354         374         339            Zinc         ppm         ASTM D5185m         419         469         447            Sulfur         ppm         ASTM D5185m         3719         1311         1191		,						
Calcium         ppm         ASTM D5185m         49         241         162            Phosphorus         ppm         ASTM D5185m         354         374         339            Zinc         ppm         ASTM D5185m         419         469         447            Sulfur         ppm         ASTM D5185m         3719         1311         1191							3	
Phosphorus         ppm         ASTM D5185m         354         374         339            Zinc         ppm         ASTM D5185m         419         469         447            Sulfur         ppm         ASTM D5185m         3719         1311         1191		Calcium		ASTM D5185m	49		162	
Zinc         ppm         ASTM D5185m         419         469         447            Sulfur         ppm         ASTM D5185m         3719         1311         1191		Phosphorus		ASTM D5185m	354		339	
Sulfur         ppm         ASTM D5185m         3719         1311         1191								
Acid Number (AN) mg KOH/g ASTM D8045 0 40 0 42		Sulfur		ASTM D5185m	3719	1311	1191	
Note that the first of the firs		Acid Number (AN)	mg KOH/g	ASTM D8045		0.40	0.42	
1/1 C 1000 C: 10TH D 1/5 10 C		Visc @ 40°C		ASTM D445	46	42.4		





Certificate L2367

Laboratory Sample No.

: ASC0011010 Lab Number : 06212301 Unique Number : 11085165 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested** 

: 19 Jun 2024 : 19 Jun 2024 - Wes Davis Diagnosed

117 - ASCENDUM MACHINERY INC - GREENVILLE

2002 N GREENE ST GREENVILLE, NC US 27834

Contact: ALLEN WILLIAMS

To discuss this sample report, contact Customer Service at 1-800-237-1369.

allen.williams@ascendummachinery.com T:

\* - 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) F: (704)494-8197