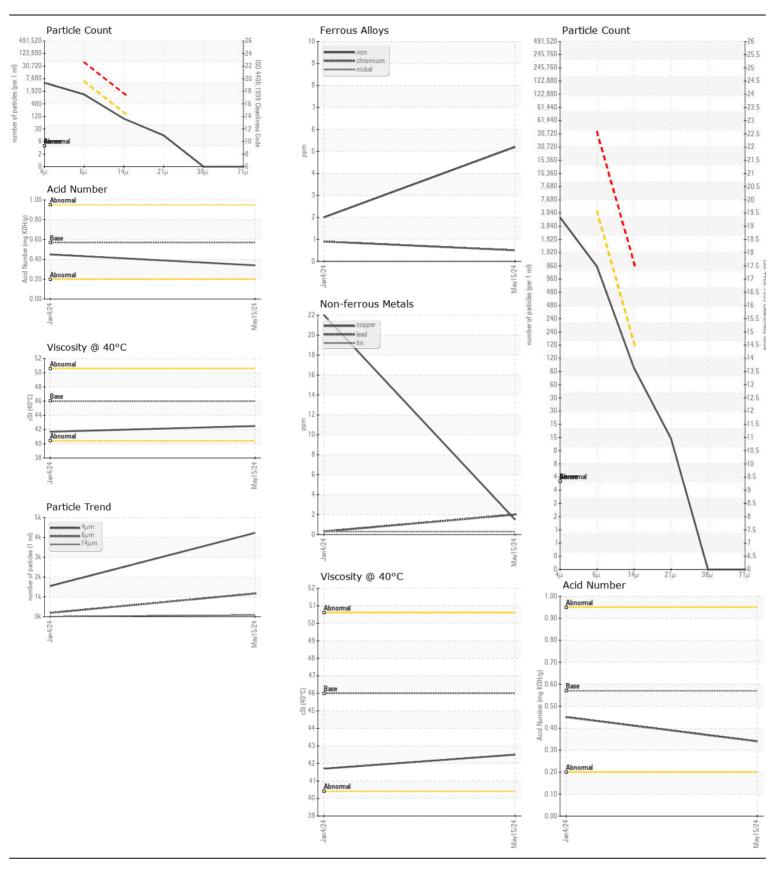
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**



Machine Id **VOLVO A45G 353449**

Hydraulic System

AW HYDRAULIC OIL ISO 46 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.	Sample Number		Client Info		ASC0011499	ASC0006324	
	Sample Date		Client Info		15 May 2024	04 Jan 2024	
	Machine Age	hrs	Client Info		2042	1406	
	Oil Age	hrs	Client Info		2042	1406	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>50	5	2	
	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m	>20	1	2	
	Lead	ppm	ASTM D5185m	>20	2	<1	
	Copper	ppm	ASTM D5185m	>150	2	22	
	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	Silicon	ppm	ASTM D5185m	>20	6	4	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Potassium	ppm	ASTM D5185m	>20	2	2	
	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647		4227	1546	
	Particles >6µm		ASTM D7647	>5000	1167	189	
	Particles >14µm		ASTM D7647	>160	82	10	
	Particles >21µm		ASTM D7647	>40	13	3	
	Particles >38µm		ASTM D7647	>10	0	0	
	Particles >71µm		ASTM D7647	>3	0	0	
	Oil Cleanliness		ISO 4406 (c)	>/19/14	19/17/14	18/15/10	
	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	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	5	0	0	
	Barium	ppm	ASTM D5185m	5	0	0	
	Molybdenum	ppm	ASTM D5185m	5	0	<1	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m	25	2	<1	
	Calcium	ppm	ASTM D5185m	200	60	64	
	Phosphorus	ppm	ASTM D5185m	300	337	500	
	Zinc	ppm	ASTM D5185m		434	567	
	Sulfur	ppm	ASTM D5185m		1486	1246	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.34	0.45	
	Visc @ 40°C	cSt	ASTM D445	46	42.5	41.7	





Certificate L2367

Laboratory Sample No.

: ASC0011499 Lab Number : 06193900 Unique Number : 11056023 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 May 2024 **Tested** : 30 May 2024

: 30 May 2024 - Wes Davis Diagnosed

117 - ASCENDUM MACHINERY INC - GREENVILLE

2002 N GREENE ST GREENVILLE, NC US 27834

Contact: HUNTER DOLIVE

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

hunter.dolive@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)

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