WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

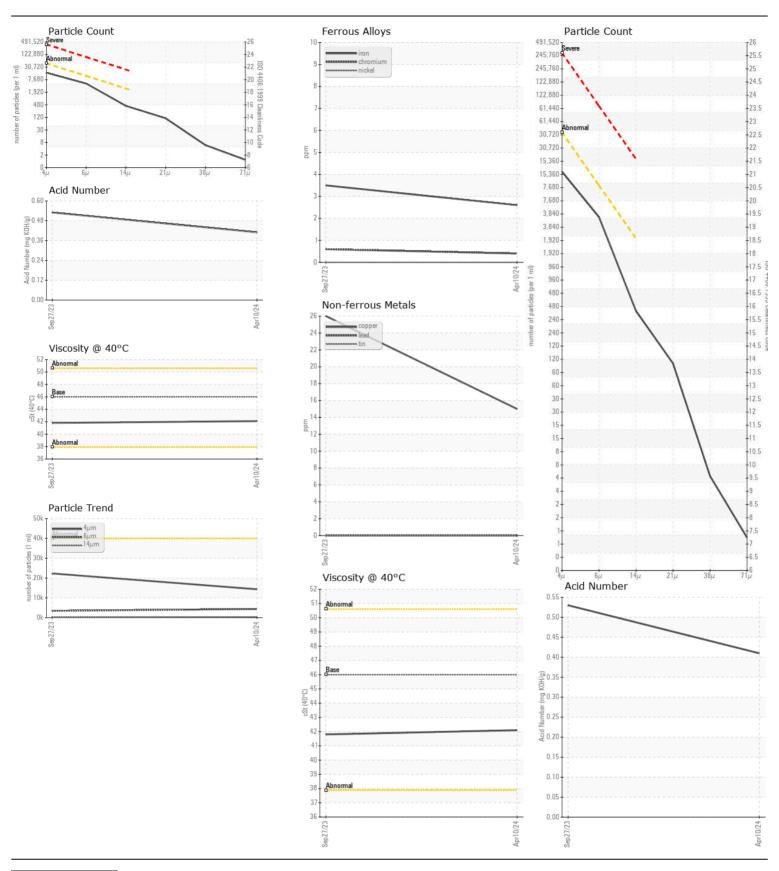


[ATLAS ORGANICS] Wachine Id VOLVO EC220EL 314414

Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP445560	VCP442744	
	Sample Date		Client Info		10 Apr 2024	27 Sep 2023	
	Machine Age	hrs	Client Info		3518	2019	
	Oil Age	hrs	Client Info		0	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	NORMAL	
WEAR	Iron	nnm	ASTM D5185m	-25	3	4	
WEAN	Chromium	ppm	ASTM D5185m		<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium		ASTM D5185m	>10	0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	- 20	-	0	
		ppm			<1 0	0	
	Lead	ppm	ASTM D5185m			26	
	Copper	ppm	ASTM D5185m		15		
	Tin	ppm	ASTM D5185m	>10	0	0	
	Vanadium	ppm	ASTM D5185m	NONE	<1 NONE	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Silicon	ppm	ASTM D5185m	>50	3	5	
	Potassium	ppm	ASTM D5185m	>20	<1	0	
	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>40000	14349	22329	
	Particles >6µm		ASTM D7647	>10000	4374	3456	
	Particles >14μm		ASTM D7647	>2500	375	162	
	Particles >21µm		ASTM D7647	>640	95	40	
	Particles >38µm		ASTM D7647	>160	5	2	
	Particles >71μm		ASTM D7647	>40	1	0	
	Oil Cleanliness		ISO 4406 (c)	>22/20/18	21/19/16	22/19/15	
	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	1	
TESIB SONDITION	Boron	ppm	ASTM D5185m	14	0	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	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		0	0	
	Magnesium	ppm	ASTM D5185m		1	0	
	Calcium	ppm	ASTM D5185m		68	72	
	Phosphorus	ppm	ASTM D5185m		394	364	
	Zinc	ppm	ASTM D5185m		527	455	
	Sulfur	ppm	ASTM D5185m		1898	1052	
	Acid Number (AN)	mg KOH/g	ASTM D8045	5. 10	0.41	0.53	
					V.T.		





Certificate L2367

Laboratory Sample No.

: VCP445560 Lab Number : 06209997 Unique Number : 11082861 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jun 2024 **Tested**

: 17 Jun 2024 : 17 Jun 2024 - Wes Davis Diagnosed

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC 8418 PALM RIVER ROAD TAMPA, FL

US 33619 Contact: KENNY HANEY khaney@flaglerce.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.

T: (813)630-0077 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (813)630-2233