WEAR CONTAMINATION FLUID CONDITION

NORMAL
ATTENTION
NORMAL

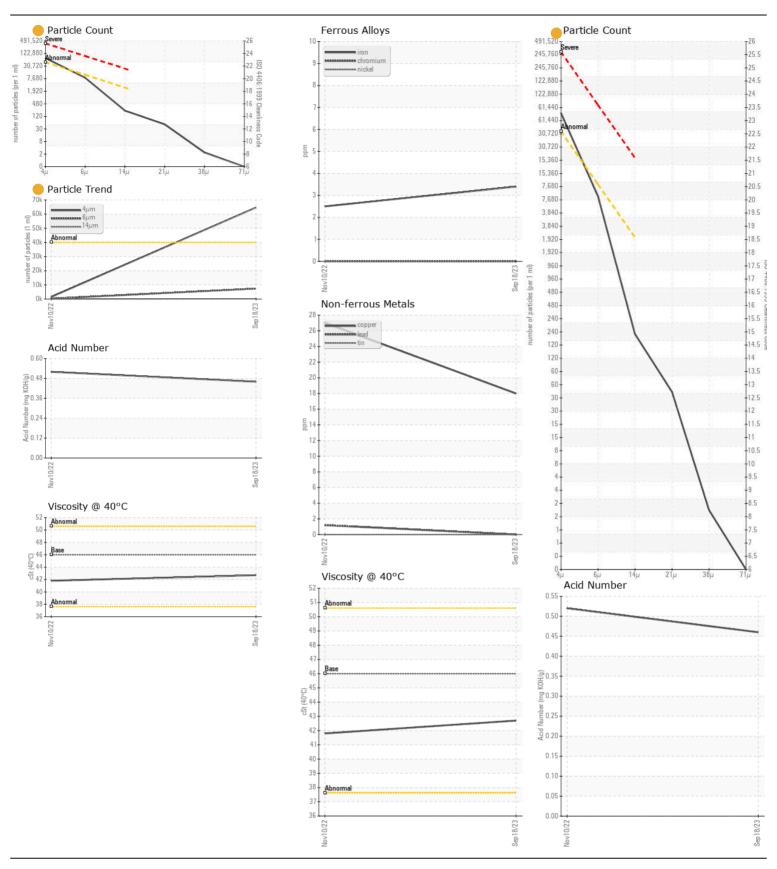


Ascendum Machinery Machine Id VOLVO ECR145E EX-9 (S/N 315052)

Component Hydraulic System

VÖLVO SUPER HYDRAULIC OIL 46 (--- GAL)

DECOMMENDATION	- .			1.1 1.741	(
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component. Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0000827	VCP0005233	
	Sample Date	le co	Client Info		18 Sep 2023		
	Machine Age	hrs	Client Info		3003	2043	
	Oil Age	hrs	Client Info		960	2043 2043	
	Filter Age Oil Changed	hrs	Client Info		0 Not Change		
	Filter Changed		Client Info		Not Changd Not Changd	Changed Changed	
	Sample Status		Client into		ATTENTION	_	
					ATTENTION	NONIVIAL	
WEAR	Iron	ppm	ASTM D5185m	>25	3	2	
	Chromium	ppm	ASTM D5185m	>10	0	0	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>20	5	1	
	Lead	ppm	ASTM D5185m	>20	0	1	
	Copper	ppm	ASTM D5185m	>150	18	27	
	Tin	ppm	ASTM D5185m	>10	0	0	
	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	>50	6	6	
There is a light amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m	>20	0	0	
	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>40000	64675	1529	
	Particles >6µm		ASTM D7647	>10000	7351	294	
	Particles >14μm		ASTM D7647	>2500	199	20	
	Particles >21μm		ASTM D7647		44	4	
	Particles >38μm		ASTM D7647		2	1	
	Particles >71μm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		23/20/15	18/15/11	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual *Visual	NONE	NONE NORML	NONE NORML	
	Appearance Odor	scalar	*Visual	NORML NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
			Vioudi				
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	<1	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	14	0	0	
	Barium	ppm	ASTM D5185m	0.0	0	0	
	Molybdenum	ppm	ASTM D5185m	0.0	0	0	
	Manganese	ppm	ASTM D5185m	0.0	0	0	
	Magnesium	ppm	ASTM D5185m	2.6	4	1	
	Calcium	ppm	ASTM D5185m		206	77	
	Phosphorus	ppm	ASTM D5185m		408	385	
	Zinc	ppm	ASTM D5185m		485	509	
	Sulfur	ppm	ASTM D5185m	3719	1755	1339	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.46	0.52	
	Visc @ 40°C	cSt	ASTM D445	46	42.7	41.8	





Certificate L2367

Laboratory Sample No.

: ASC0000827 Lab Number : 05955225 Unique Number: 10656438 Test Package : MOBCE

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

Diagnosed

: 19 Sep 2023 : 20 Sep 2023 : 20 Sep 2023 - Wes Davis

CAROLINA EXCAVATING 1036 BRANCHVIEW DR, SUITE 106

CONCORD, NC US 28025

Contact: KEVIN LADGERWOOD kevin@carlinaexcavation.com

* - 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)

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

Report Id: CARCONVC [WUSCAR] 05955225 (Generated: 03/01/2024 13:03:28) Rev: 1

T: F: