

WEAR	
CONTAMINATION	
FLUID CONDITION	NORMAL



## Area Ascendum Machinery Machine Id VOLVO EC350E EX-8 (S/N 314211) Component Hydraulic System Eluid

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		ASC0007972	VCP0002954	
	Sample Date		Client Info		15 Mar 2024	19 Jul 2022	
	Machine Age	hrs	Client Info		5062	1968	
	Oil Age	hrs	Client Info		3094	1968	
	Filter Age	hrs	Client Info		0	1500	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m		8	4	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		<1	<1	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		17	30	
	Tin	ppm	ASTM D5185m	>10	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	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	3	
	Potassium	ppm	ASTM D5185m		<1	0	
	Water	ppiii	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		4063	5537	
	Particles >6µm		ASTM D7647		1650	1208	
	Particles >14µm		ASTM D7647		141	54	
	Particles >21µm		ASTM D7647		25	10	
	Particles >38µm		ASTM D7647 ASTM D7647		0	1	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness				19/18/14	20/17/13	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	LIGHT	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.1	NEG	NEG	
		304141	Visual	20.1		NLG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	<1	
	Boron	ppm	ASTM D5185m	14	1	8	
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	4	<1	
	Manganese	ppm	ASTM D5185m	0.0	<1	0	
	Magnesium	ppm	ASTM D5185m		8	0	
	Calcium	ppm	ASTM D5185m		342	95	
	Phosphorus	ppm	ASTM D5185m		383	395	
	Zinc	ppm	ASTM D5185m		460	500	
	Sulfur	ppm	ASTM D5185m		1933	1229	
	A sid Number (ANI)	ma 1/011/a			0.50	0.50	

Acid Number (AN) mg KOH/g ASTM D8045

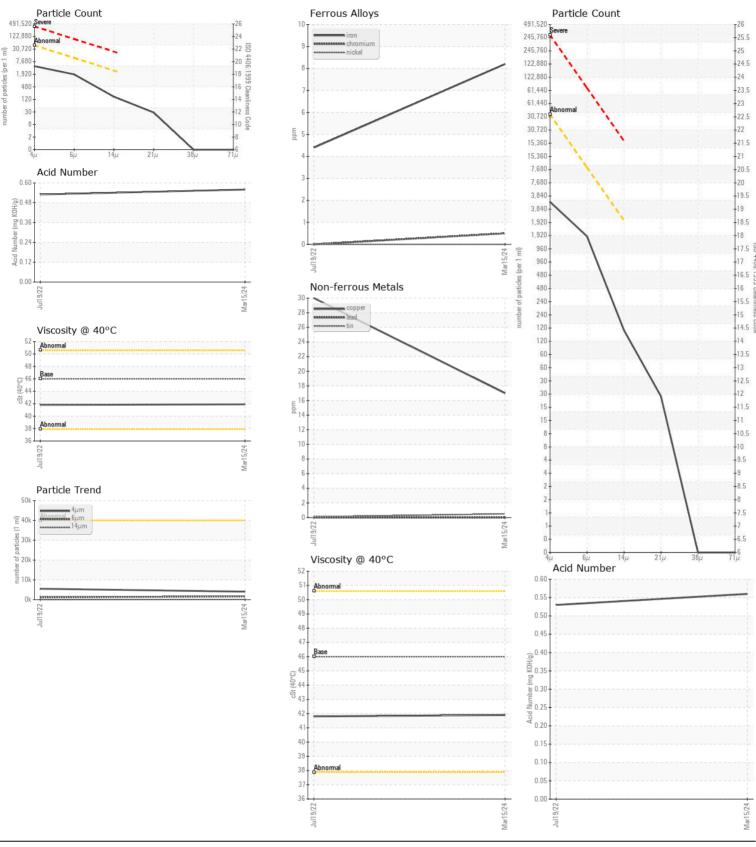
Visc @ 40°C cSt ASTM D445 46

0.53

41.8

0.56

41.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **CAROLINA EXCAVATING** Sample No. : ASC0007972 1036 BRANCHVIEW DR, SUITE 106 Received : 21 Mar 2024 Lab Number : 06124811 CONCORD, NC Tested : 22 Mar 2024 : 22 Mar 2024 - Wes Davis US 28025 Unique Number : 10938962 Diagnosed Test Package : CONST Contact: KEVIN LADGERWOOD Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. kevin@carlinaexcavation.com T: \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Í.

Submitted By: KARRINGTON RENDLEMAN