WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL NORMAL

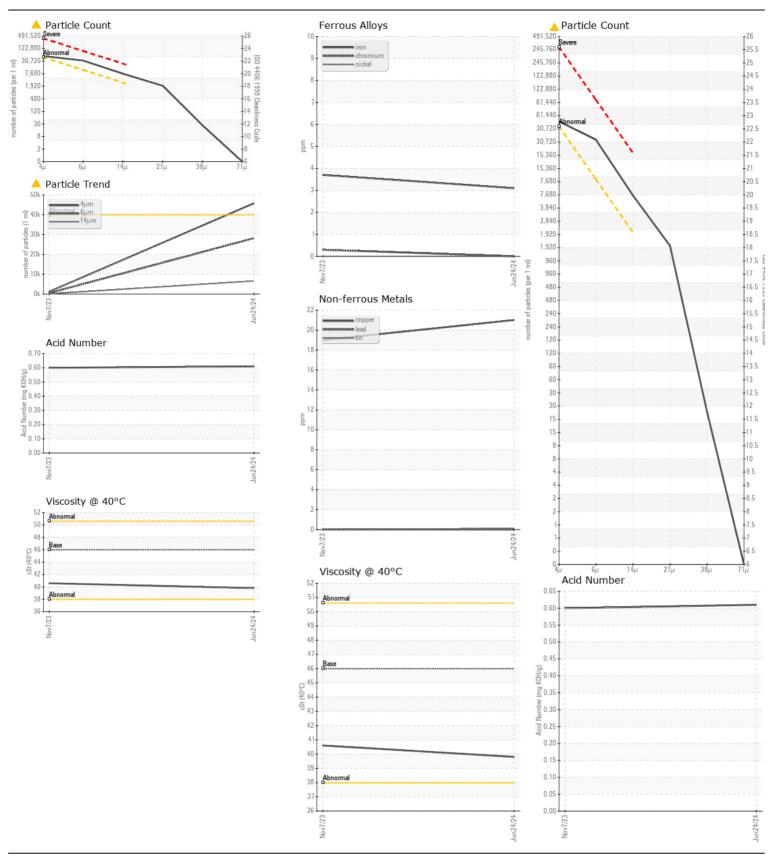
Ascendum Machinery

VOLVO EC350E EX-11 (S/N 314238)

Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number	OOW	Client Info	LITTIU/AUT	ASC0000601		
The oil change at the time of sampling has been noted. We	Sample Date		Client Info		24 Jun 2024	07 Nov 2023	
recommend an early resample to monitor this condition.	Machine Age	hrs	Client Info		3995	2993	
	Oil Age	hrs	Client Info		3995	2993	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL	NORMAL	
	·i						
WEAR	Iron	ppm	ASTM D5185m	>25	3	4	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	<1	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>20	1	2	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		21	19	
	Tin	ppm	ASTM D5185m	>10	<1	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	4	4	
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		1	2	
	Water	ppiii	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		45770	1171	
	Particles >6µm		ASTM D7647		<u>^</u> 28175	462	
	Particles >14µm		ASTM D7647		△ 6577	85	
	Particles >21µm		ASTM D7647	>640	1763	20	
	Particles >38µm		ASTM D7647	>160	23	0	
	Particles >71μm		ASTM D7647	>40	0	0	
	Oil Cleanliness		ISO 4406 (c)	>22/20/18	<u> 23/22/20</u>	17/16/14	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	LIGHT	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	
	Boron	ppm	ASTM D5185m	14	0	0	
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Barium	ppm		0.0	0	0	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m		10	9	
	Calcium	ppm	ASTM D5185m		790	717	
	Phosphorus	ppm	ASTM D5185m	354	565	496	
	Zinc	ppm	ASTM D5185m	419	665	644	
	Sulfur	ppm	ASTM D5185m	3719	2354	2237	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.61	0.60	
	Visc @ 40°C	cSt	ASTM D445	46	39.8	40.6	





Certificate L2367

Laboratory Sample No.

: ASC0000601 Lab Number : 06228468 Unique Number : 11111961 Test Package : MOBCE

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

: 05 Jul 2024 Diagnosed

: 08 Jul 2024 : 08 Jul 2024 - Wes Davis **CAROLINA EXCAVATING**

1036 BRANCHVIEW DR, SUITE 106 CONCORD, NC US 28025

Contact: KEVIN LADGERWOOD kevin@carlinaexcavation.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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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