WEAR CONTAMINATION FLUID CONDITION

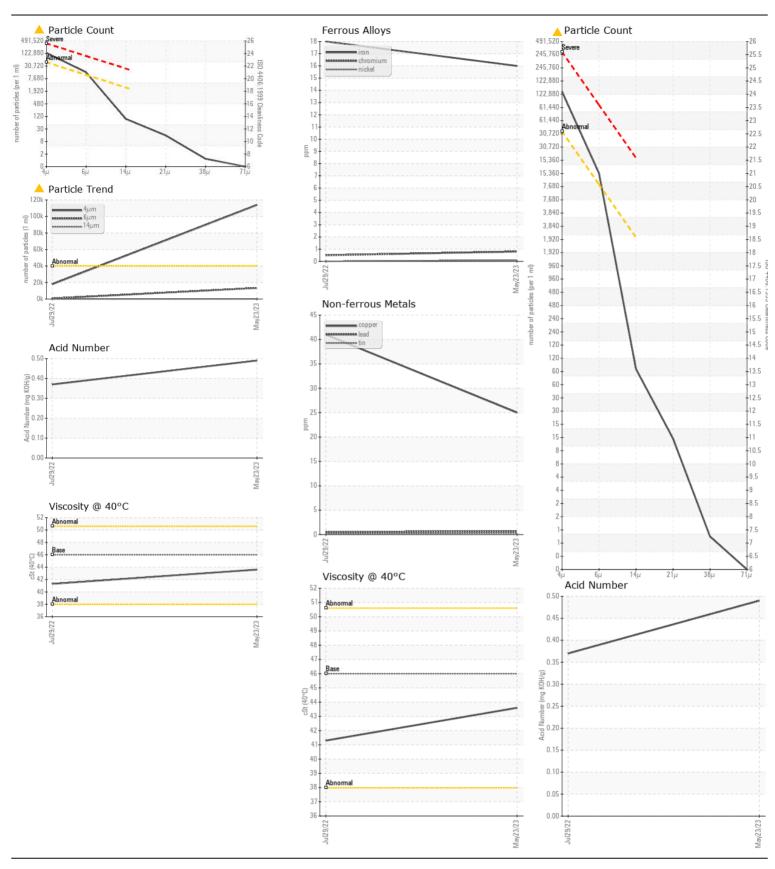
NORMAL ABNORMAL NORMAL



Ascendum Machinery VOLVO EC220E EX-7 (S/N 310467)

Component Hydraulic System

	IL 46 (GA						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component. We recommend an early resample to monitor this condition.	Sample Number		Client Info		VCP0006604	VCP0002405	
	Sample Date		Client Info		23 May 2023	29 Jul 2022	
	Machine Age	hrs	Client Info		4959	3999	
	Oil Age	hrs	Client Info		960	3999	
	Filter Age	hrs	Client Info		960	3999	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status				ABNORMAL	NORMAL	
/EAR	Iron	ppm	ASTM D5185m	>25	16	18	
	Chromium	ppm	ASTM D5185m	>10	<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m	710	<1	<1	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m	>20	4	6	
	Lead	ppm	ASTM D5185m		<1	<1	
	Copper	ppm	ASTM D5185m		25	41	
	Tin		ASTM D5185m		25 <1	<1	
	Vanadium	ppm	ASTM D5165III	>10	0	0	
	White Metal	ppm	*Visual	NONE	NONE	NONE	
		scalar		NONE	NONE		
<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m		13	16	
There is a mandament annount of all (nonline) and (14 minutes in airs)	Potassium	ppm	ASTM D5185m	>20	3	1	
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>40000	<u> </u>	17885	
	Particles >6µm		ASTM D7647	>10000	13406	700	
	Particles >14µm		ASTM D7647	>2500	80	17	
	Particles >21µm		ASTM D7647	>640	13	3	
	Particles >38µm		ASTM D7647	>160	1	0	
	Particles >71µm		ASTM D7647	>40	0	0	
	Oil Cleanliness		ISO 4406 (c)	>22/20/18	<u> 24/21/13</u>	21/17/11	
	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	
LUD CONDITION	0 "						
LUID CONDITION	Sodium	ppm	ASTM D5185m		1	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.	Boron	ppm	ASTM D5185m		3	0	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		4	0	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m		46	1	
	Calcium	ppm	ASTM D5185m		269	50	
	Phosphorus	ppm	ASTM D5185m		385	340	
	Zinc	ppm	ASTM D5185m		407	329	
	Sulfur	ppm	ASTM D5185m	3719	1404	1805	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.49	0.37	
	Visc @ 40°C	cSt	ASTM D445	46	43.6	41.3	





Certificate L2367

Laboratory Sample No.

: VCP0006604 Lab Number : 05856100 Unique Number: 10485455 Test Package : MOBCE

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2023 **Tested** : 26 May 2023

: 26 May 2023 - Wes Davis Diagnosed

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)

T:

F: