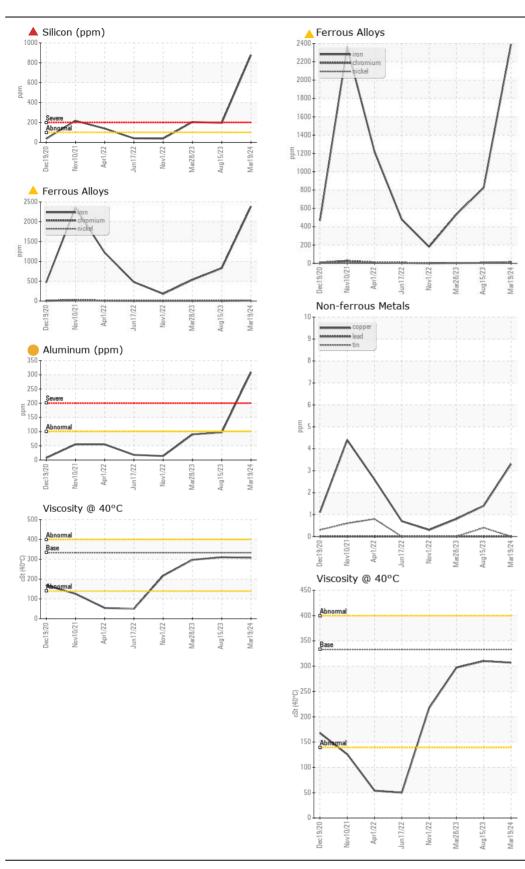
WEAR CONTAMINATION FLUID CONDITION **ABNORMAL SEVERE NORMAL**



Ascendum Machinery VOLVO EC220E EX-6 (S/N 314304)

Component Left Travel

		85W-140 GL-5 (GAL)						
RECOMMENDATION We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Test	UOM	Method	Limit/Abn	Current	History1	History2	
	Sample Number		Client Info		ASC0007783	ASC0001061	VCP000637	
	Sample Date		Client Info		19 Mar 2024	15 Aug 2023	28 Mar 202	
	Machine Age	hrs	Client Info		4992	4492	4024	
	Oil Age	hrs	Client Info		500	468	472	
	Filter Age	hrs	Client Info		0	0	0	
	Oil Changed		Client Info		Changed	Changed	Changed	
	Filter Changed		Client Info		N/A	N/A	N/A	
	Sample Status				SEVERE	ABNORMAL	SEVERE	
WEAR	Iron	ppm	ASTM D5185m	>1200	<u>^</u> 2388	826	535	
Gear wear is indicated.	Chromium	ppm	ASTM D5185m	>20	12	5	3	
	Nickel	ppm	ASTM D5185m	>5	<u>^</u> 9	2	2	
	Titanium	ppm	ASTM D5185m		21	6	7	
	Silver	ppm	ASTM D5185m		0	0	0	
	Aluminum	ppm	ASTM D5185m	>100	309	97	90	
	Lead	ppm	ASTM D5185m	>50	0	0	0	
	Copper	ppm	ASTM D5185m	>50	3	1	<1	
	Tin	ppm	ASTM D5185m	>5	0	<1	0	
	Vanadium	ppm	ASTM D5185m		<1	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>100	▲ 878	<u>^</u> 195	▲ 205	
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m		32	9	7	
	Water	PPIII	WC Method	>0.25	NEG	NEG	NEG	
	Silt	scalar	*Visual	NONE	MODER	MODER	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM	
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN	
	Emulsified Water	scalar	*Visual	>0.25	NEG	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		26	2	1	
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	111	211	227	200	
	Barium	ppm	ASTM D5185m		<1	0	0	
	Molybdenum	ppm	ASTM D5185m		1	0	<1	
	Manganese	ppm	ASTM D5185m		17	6	5	
	Magnesium	ppm	ASTM D5185m		23	5	3	
	Calcium	ppm	ASTM D5185m		43	12	9	
	Phosphorus	ppm	ASTM D5185m		1008	1071	951	
	Zinc	ppm	ASTM D5185m		6	0	0	
	•	L- In						
	Sulfur	ppm	ASTM D5185m	20179	28623	32923	25056	







Laboratory Sample No.

Lab Number : 06125210 Unique Number : 10939361 Test Package : CONST

: ASC0007783

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 21 Mar 2024 Received **Tested**

: 25 Mar 2024 : 25 Mar 2024 - Sean Felton Diagnosed

CAROLINA EXCAVATING

1036 BRANCHVIEW DR, SUITE 106 CONCORD, NC

US 28025

Contact: KEVIN LADGERWOOD

kevin@carlinaexcavation.com T:

* - 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)

Report Id: CARCONVC [WUSCAR] 06125210 (Generated: 03/25/2024 13:47:28) Rev: 1

Submitted By: CLAYTON SMITH

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