**WEAR CONTAMINATION FLUID CONDITION** 

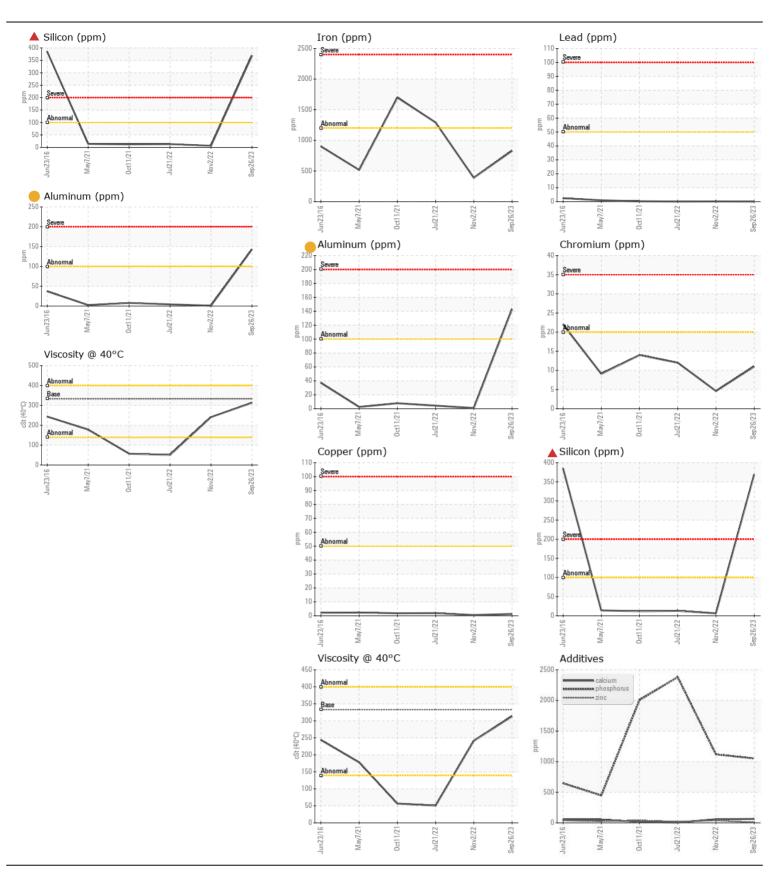
**ATTENTION SEVERE NORMAL** 



**Ascendum Machinery VOLVO EC380E EX-2 (S/N 310020)** 

Right Travel

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		ASC0001414	VCP0004476	VCP0002385
	Sample Date		Client Info		26 Sep 2023	02 Nov 2022	21 Jul 2022
	Machine Age	hrs	Client Info		11014	10493	9938
	Oil Age	hrs	Client Info		521	555	9938
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	None	N/A
	Sample Status				SEVERE	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>1200	828	388	1292
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	11	5	12
	Nickel	ppm	ASTM D5185m	>5	2	0	<1
	Titanium	ppm	ASTM D5185m		8	<1	0
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m	>100	<u> </u>	<1	4
	Lead	ppm	ASTM D5185m	>50	0	<1	0
	Copper	ppm	ASTM D5185m	>50	1	<1	2
	Tin	ppm	ASTM D5185m	>5	0	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>100	▲ 369	6	13
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina- silicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	8	<1	0
	Water		WC Method	>0.25	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	VLITE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.25	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		20	2	2
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	111	198	170	164
•	Barium	ppm	ASTM D5185m	0.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0.9	2	2	4
	Manganese	ppm	ASTM D5185m	0.0	7	3	8
	Magnesium	ppm	ASTM D5185m	39	29	7	1
	Calcium	ppm	ASTM D5185m		64	59	7
	Phosphorus	ppm	ASTM D5185m		1051	1118	2380
	Zinc	ppm	ASTM D5185m		7	38	17
	Sulfur	ppm	ASTM D5185m		29469	32233	32563
	Visc @ 40°C	cSt	ASTM D445	333	313	241	50.8







Certificate L2367

Laboratory Sample No.

: ASC0001414 Lab Number : 05962531 Unique Number: 10669082 Test Package : MOBCE

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 27 Sep 2023 Received

**Tested** : 28 Sep 2023 : 28 Sep 2023 - Don Baldridge 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: