**WEAR CONTAMINATION FLUID CONDITION** 

**SEVERE SEVERE NORMAL** 

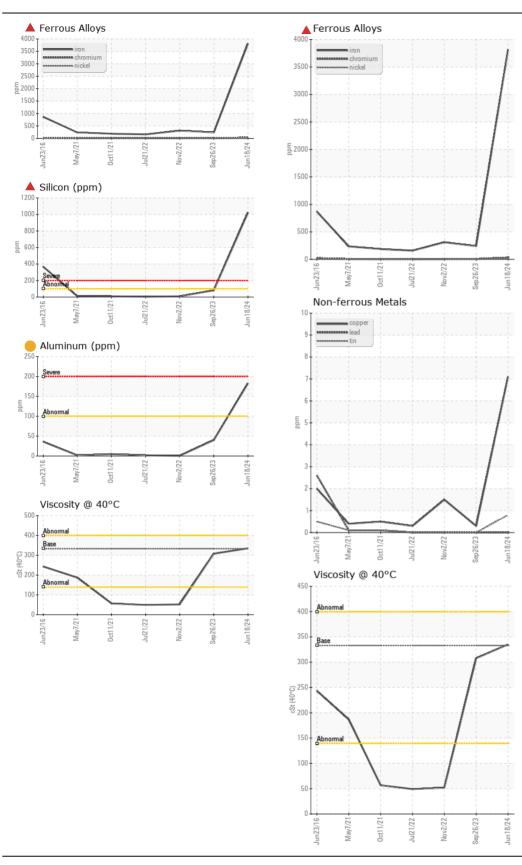
## **Ascendum Machinery**

## VOLVO EC380E EX-02 (S/N 310020)

**Left 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		ASC0009773	ASC0001423	VCP0004479
	Sample Date		Client Info		18 Jun 2024	26 Sep 2023	02 Nov 2022
	Machine Age	hrs	Client Info		11997	11014	10493
	Oil Age	hrs	Client Info		983	521	555
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	None
	Sample Status				SEVERE	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>1200	▲ 3814	240	311
Gear wear is indicated.	Chromium	ppm	ASTM D5185m	>20	<b>△</b> 32	4	4
	Nickel	ppm	ASTM D5185m	>5	3	1	1
	Titanium	ppm	ASTM D5185m		19	2	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>100	<u> </u>	40	<1
	Lead	ppm	ASTM D5185m	>50	0	0	0
	Copper	ppm	ASTM D5185m	>50	7	<1	2
	Tin	ppm	ASTM D5185m	>5	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>100	<b>1</b> 023	82	8
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	29	2	1
	Water		WC Method	>0.25	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Debris	scalar	*Visual	NONE	NONE	NONE	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		16	2	4
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	111	219	212	187
	Barium	ppm	ASTM D5185m	0.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0.9	4	<1	2
	Manganese	ppm	ASTM D5185m	0.0	26	3	7
	Magnesium	ppm	ASTM D5185m	39	19	6	<1
	Calcium	ppm	ASTM D5185m		102	30	62
	Phosphorus	ppm	ASTM D5185m		1118	1055	2322
	Zinc	ppm	ASTM D5185m	104	33	7	24
	Sulfur	ppm	ASTM D5185m		35381	30726	32511
	Visc @ 40°C	cSt	ASTM D445	333	335	308	52.0

Submitted By: CLAYTON SMITH







Certificate L2367

Laboratory Sample No.

: ASC0009773 Lab Number : 06217160 Unique Number : 11090024 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024

**Tested** : 24 Jun 2024 : 24 Jun 2024 - Sean Felton Diagnosed

**CAROLINA EXCAVATING** 

1036 BRANCHVIEW DR, SUITE 106 CONCORD, NC

> US 28025 Contact: KEVIN LADGERWOOD

kevin@carlinaexcavation.com T:

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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