WEAR CONTAMINATION FLUID CONDITION

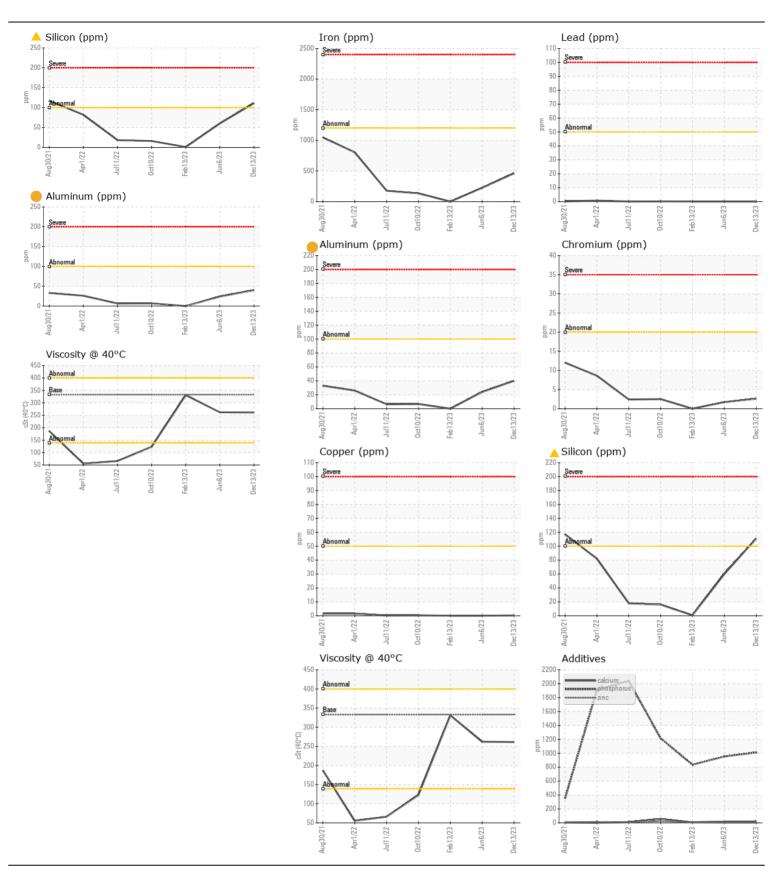
ATTENTION
ABNORMAL
NORMAL



Ascendum Machinery Machine Id VOLVO EC220E EX-4 (S/N 310878)

Component Left Travel

VOLVO PREMIUM GEAR OIL 8	35W-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. Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0000972	ASC0000068	VCP0007247
	Sample Date		Client Info		13 Dec 2023	06 Jun 2023	13 Feb 2023
	Machine Age	hrs	Client Info		5519	5011	4511
	Oil Age	hrs	Client Info		508	500	464
	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				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>1200	461	224	<1
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	3	2	0
	Nickel	ppm	ASTM D5185m	>5	1	<1	0
	Titanium	ppm	ASTM D5185m		2	1	0
	Silver	ppm	ASTM D5185m		0	3	0
	Aluminum	ppm	ASTM D5185m	>100	40	24	0
	Lead	ppm	ASTM D5185m	>50	0	0	0
	Copper	ppm	ASTM D5185m	>50	<1	0	0
	Tin	ppm	ASTM D5185m	>5	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>100	<u></u> 111	60	<1
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	5	2	0
	Water		WC Method	>0.25	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	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		0	1	<1
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	111	207	188	183
	Barium	ppm	ASTM D5185m	0.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0.9	0	0	0
	Manganese	ppm	ASTM D5185m	0.0	2	2	0
	Magnesium	ppm	ASTM D5185m	39	3	1	0
	Calcium	ppm	ASTM D5185m	93	20	19	9
	Phosphorus	ppm	ASTM D5185m	920	1011	953	835
	Zinc	ppm	ASTM D5185m	104	0	0	5
	Sulfur	ppm	ASTM D5185m		33471	32030	28390
	Visc @ 40°C	cSt	ASTM D445	333	261	262	331







Certificate L2367

Laboratory Sample No. Lab Number

: ASC0000972 : 06034917 Unique Number: 10790146 Test Package : MOBCE

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 14 Dec 2023 Received

Tested : 15 Dec 2023 : 18 Dec 2023 - Don Baldridge 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)

F: