WEAR CONTAMINATION FLUID CONDITION

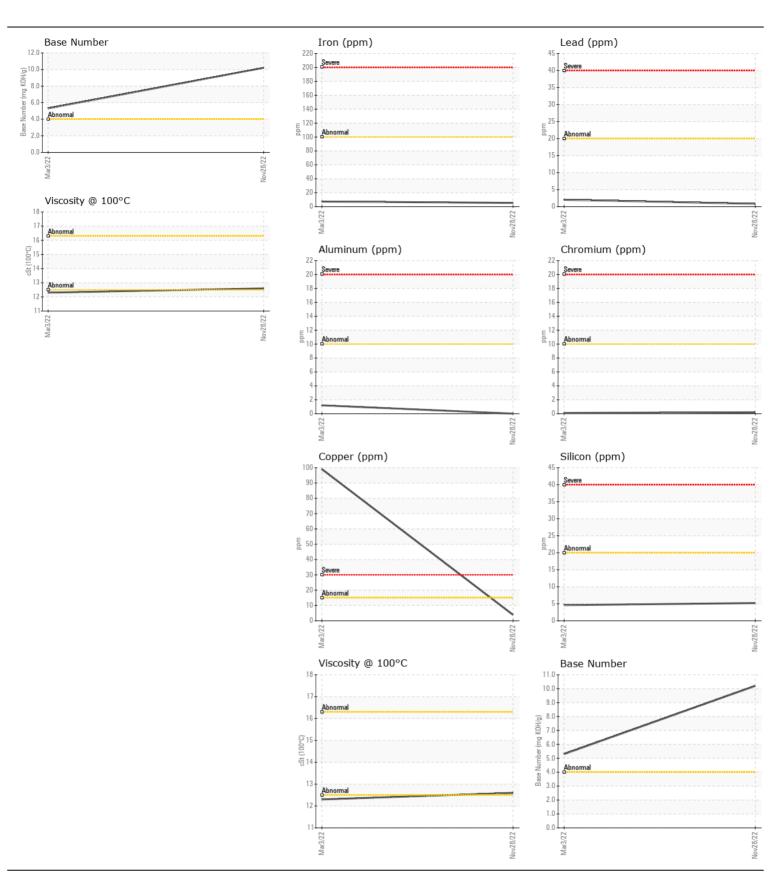
NORMAL NORMAL NORMAL



## Ascendum Machinery VOLVO EC380E 314130

Component Diesel Engine

RECOMMENDATION	Test	) ( (	Method	Limit/Abn	Current	History	History2
RECOMMENDATION	Sample Number	UOIVI	Client Info	LITTIL/ADTI	VCP0005199	History1 VCP348339	
Resample at the next service interval to monitor.	Sample Date		Client Info		28 Nov 2022	03 Mar 2022	
	Machine Age	hrs	Client Info		4178	2979	
	Oil Age	hrs	Client Info		1199	0	
	Filter Age	hrs	Client Info		1199	0	
	Oil Changed	1113	Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status		Olletti IIIIO		NORMAL	ABNORMAL	
<u></u>	· · · · · · · · · · · · · · · · · · ·					ADNOTIVIAL	
WEAR	Iron	ppm	ASTM D5185m	>100	5	7	
	Chromium	ppm	ASTM D5185m	>10	<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	<1	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>10	0	1	
	Lead	ppm	ASTM D5185m		<1	2	
	Copper	ppm	ASTM D5185m	>15	4	<b>4</b> 99	
	Tin	ppm	ASTM D5185m	>10	<1	1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	<1	
	Fuel		WC Method	>5	<1.0	0.3	
	Water		WC Method	>0.1	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.8	
	Sulfation	Abs/.1mm	*ASTM D7415		23.7	22.6	
	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	
FLUID CONDITION	Sodium	nnm	ASTM D5185m		2	2	
I LOID CONDITION	Boron	ppm	ASTM D5185m		24	15	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		44	20	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		565	605	
	Calcium	ppm	ASTM D5185m		1637	1519	
	Phosphorus	ppm	ASTM D5185m		933	740	
	Zinc	ppm	ASTM D5185m		1160	902	
	Sulfur	ppm	ASTM D5185m		3404	2393	
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	22.2	17.9	
	Base Number (BN)			/LU	10.2	5.3	
	Dasc Hallibel (DIV)	ing Norty	ASTM D2090		10.2	12.3	







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP0005199

: 05705749 : 10240324

Recieved Diagnosed Test Package : MOBCE ( Additional Tests: TBN )

: 02 Dec 2022 Diagnostician : Wes Davis

: 01 Dec 2022

4000 TRIANGLE LANE SUITE 160 EXPORT, PA US 15632

**ENVIRONMENTAL HOLDINGS GROUP LLC** 

Contact: Service Manager

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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