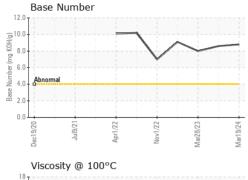
WEAR CONTAMINATION FLUID CONDITION

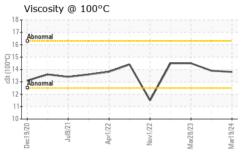
NORMAL NORMAL NORMAL

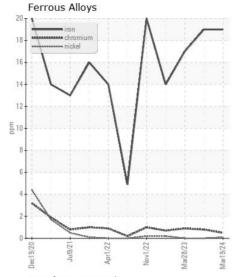


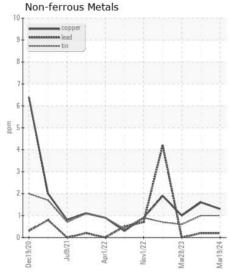
Ascendum Machinery VOLVO EC220E EX-6 (S/N 314304)
Component
Diesel Engine

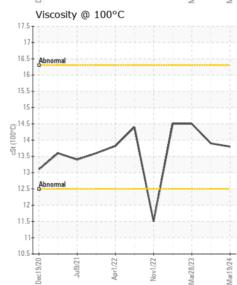
) (C					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0007780	ASC0001065	VCP000636
	Sample Date		Client Info		19 Mar 2024	15 Aug 2023	28 Mar 202
	Machine Age	hrs	Client Info		4992	4492	4024
	Oil Age	hrs	Client Info		500	468	472
	Filter Age	hrs	Client Info		0	0	472
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	19	19	17
	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m		3	4	3
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		1	2	1
	Tin	ppm	ASTM D5185m		1	1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ACTM DE10Em	. 00		10	10
CONTAMINATION		ppm	ASTM D5185m	>20	8	10	10
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	1	0
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol	21	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	11.2	11.4	10.8
	Sulfation	Abs/.1mm	*ASTM D7415		24.2	23.6	21.1
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	3	1
	Boron	ppm	ASTM D5185m		38	30	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		5	0	0
	Molybdenum	ppm	ASTM D5185m		46	52	65
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		528	686	899
	Calcium	ppm	ASTM D5185m		1928	1733	1270
	Phosphorus	ppm	ASTM D5185m		1044	1029	1001
	Zinc	ppm	ASTM D5185m		1222	1289	1149
	Sulfur	ppm	ASTM D5185m		3346	3744	3042
	Oxidation	Abs/.1mm	*ASTM D7414	>25	26.1	24.3	19.7
	Base Number (BN)	mg KOH/g	ASTM D2896		8.8	8.6	8.0
	Visc @ 100°C	cSt	ASTM D445		13.8	13.9	14.5

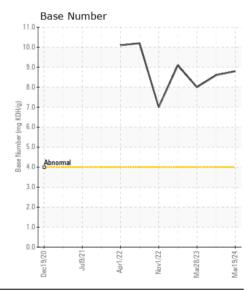














Certificate L2367

Laboratory Sample No. Unique Number: 10938893

Lab Number : 06124742

: ASC0007780

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

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

Tested Diagnosed Test Package : CONST (Additional Tests: TBN)

Received : 21 Mar 2024 : 22 Mar 2024

: 24 Mar 2024 - Don Baldridge

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)

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