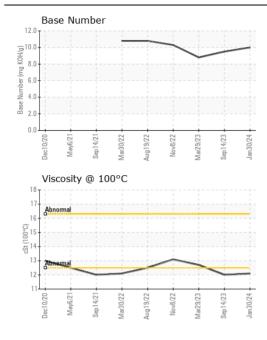
WEAR CONTAMINATION FLUID CONDITION

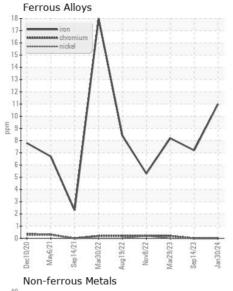
NORMAL NORMAL NORMAL

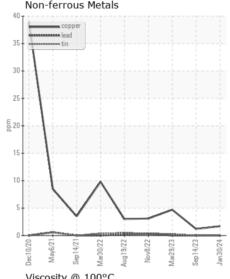
Ascendum Machinery VOLVO A40G ED-1 (S/N 352172)

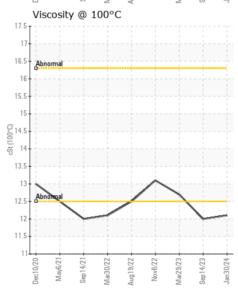
Component Diesel Engine

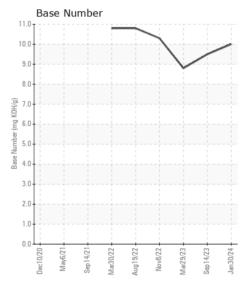
DECOMMENDATION.	T4	11014	N / - +	Line St. / Alle	(a	1.05-4	Libertonio
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0007894	ASC0001482	VCP000637
	Sample Date	bro	Client Info		30 Jan 2024	14 Sep 2023 4994	29 Mar 202
	Machine Age	hrs			5497		4495
	Oil Age	hrs	Client Info		503	499	498
	Filter Age	hrs	Client Info		503	499	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	11	7	8
	Chromium	ppm	ASTM D5185m		0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	_	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		1	<1	2
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		2	1	5
	Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m	7.0	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	0	0
	Fuel		WC Method	>6.0	<1.0	2.1	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.8	6.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	20.5	17.9
	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	>0.2	NEG	NEG	NEG
THID CONDITION	Cadiona		ACTM DE105		•		4
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		50	50	
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		39	41	54
	Manganese	ppm	ASTM D5185m		<1	0	1
	Magnesium	ppm	ASTM D5185m		502	586	829
	Calcium	ppm	ASTM D5185m		1724	1601	1117
	Phosphorus	ppm	ASTM D5185m		942	939	948
	Zinc	ppm	ASTM D5185m		1076	1147	1049
	Sulfur	ppm	ASTM D5185m	0.5	2986	3116	3075
			************	O.C	19.5	101	100
	Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25	10.0	18.1 9.5	13.6 8.8













Laboratory Sample No.

Lab Number : 06101310 Unique Number: 10899540

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0007894

Received

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

: 27 Feb 2024 : 28 Feb 2024 : 28 Feb 2024 - Wes Davis

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)

F: