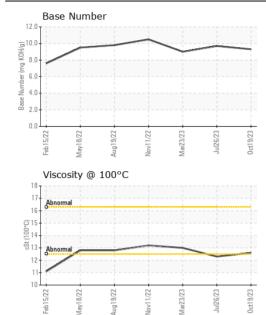
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

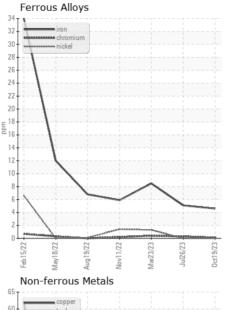
## **Ascendum Machinery**

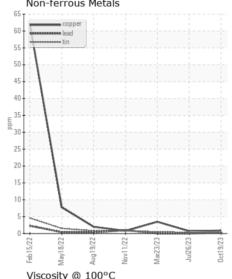
**VOLVO A40G ED-5 (S/N A40GV352680)** 

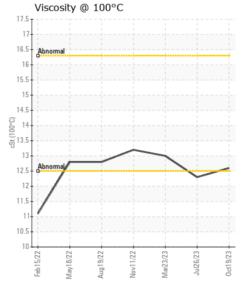
Component Diesel Engine

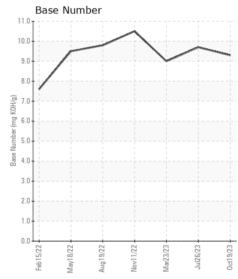
VOLVO VDS-4.5 Premium Moto	J. O. 1011 10		<u> </u>		-		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0005315	ASC0000352	VCP000547
	Sample Date		Client Info		19 Oct 2023	26 Jul 2023	23 Mar 202
	Machine Age	hrs	Client Info		4012	3591	3047
	Oil Age	hrs	Client Info		421	544	539
	Filter Age	hrs	Client Info		0	544	0
	Oil Changed		Client Info		Changed	Changed	Change
	Filter Changed		Client Info		Changed	Changed	Change
	Sample Status				NORMAL	NORMAL	NORMA
VEAR	Iron	ppm	ASTM D5185m	>100	5	5	8
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	1
	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		<1	0	0
	Copper	ppm	ASTM D5185m		<1	<1	4
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
CONTAMINATION	Silicon	ppm	ASTM D5185m	<b>&gt;</b> 25	4	4	4
CONTAMINATION	Potassium	ppm	ASTM D5185m		0	0	<1
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	0.7	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 2	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	6.7	7.1	7.2
	Sulfation	Abs/.1mm	*ASTM D7624		20.4	20.7	17.9
	Silt		*Visual		NONE		NON
	Debris	scalar	*Visual	NONE		NONE	
		scalar		NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	NOR
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
	Linuisincu Water		Visuai	70.2			INLO
LUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	2
	Boron	ppm	ASTM D5185m		49	44	7
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	2
	Molybdenum	ppm	ASTM D5185m		43	40	59
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		494	535	903
	Calcium	ppm	ASTM D5185m		1707	1496	1153
	Phosphorus	ppm	ASTM D5185m		968	894	1053
	Zinc	ppm	ASTM D5185m		1153	1072	1244
	Sulfur	ppm	ASTM D5185m		3063	3342	3365
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	18.3	13.8
	Base Number (BN)	mg KOH/g	ASTM D2896		9.3	9.7	9.0
	Visc @ 100°C	cSt	ASTM D445		12.6	12.3	13.0













Certificate L2367

Laboratory Sample No. Lab Number : 05987890 Unique Number: 10710552

: ASC0005315

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

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

: 24 Oct 2023 : 25 Oct 2023

: 25 Oct 2023 - 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: