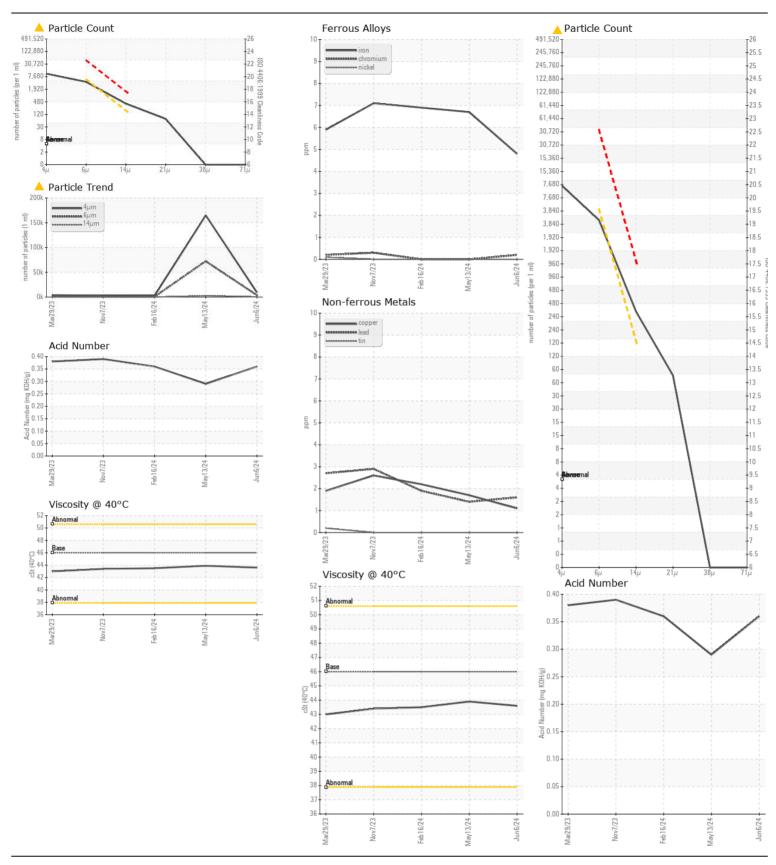
**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

## **Ascendum Machinery** VOLVO A40G ED-04 (S/N 352697)

Hydraulic System

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.  Mac Oil A Filter Oil C Filter Sam  WEAR  All component wear rates are normal.  Mick Alur Leac	mple Number mple Date chine Age Age er Age Changed er Changed mple Status  romium ckel anium ver	hrs hrs hrs ppm ppm ppm ppm	Client Info ASTM D5185m ASTM D5185m		Current ASC0007046 06 Jun 2024 4405 3985 0 Not Changd Changed ABNORMAL	13 May 2024 4405 420 0 Not Changd Not Changd SEVERE	History2 ASC0007384 16 Feb 2024 3985 3985 0 Changed Changed NORMAL
recommend an early resample to monitor this condition.  Mac Oil A Filte Oil C Filte Sam  WEAR  All component wear rates are normal.  Nick Tital Silve Alur Lear Cop	chine Age Age er Age Changed er Changed mple Status  romium ckel anium ver	hrs hrs	Client Info Client Info Client Info Client Info Client Info ASTM D5185m ASTM D5185m		4405 3985 0 Not Changd Changed ABNORMAL	4405 420 0 Not Changd Not Changd SEVERE	3985 3985 0 Changed Changed NORMAL
WEAR  WEAR  All component wear rates are normal.  Nick  Tital  Silve  Alur  Lear  Cop	Age er Age Changed er Changed mple Status  romium kel anium ver	hrs hrs	Client Info Client Info Client Info Client Info ASTM D5185m ASTM D5185m		3985 0 Not Changd Changed ABNORMAL	420 0 Not Changd Not Changd SEVERE	3985 0 Changed Changed NORMAL
Filte Oil ( Filte Sam  WEAR  All component wear rates are normal.  Nick Tital Silve Alur Leac Cop	er Age Changed er Changed mple Status n romium ekel anium ver	ppm ppm ppm	Client Info Client Info Client Info ASTM D5185m ASTM D5185m		0 Not Changd Changed ABNORMAL	0 Not Changd Not Changd SEVERE	0 Changed Changed NORMAL
VEAR  All component wear rates are normal.  Plant Silve Alur Lear Cop	Changed er Changed mple Status n romium ekel anium ver	ppm ppm ppm	Client Info Client Info ASTM D5185m ASTM D5185m		Not Changd Changed ABNORMAL	Not Changd Not Changd SEVERE	Changed Changed NORMAL
WEAR  All component wear rates are normal.  Nick  Tital  Silve  Alur  Lear  Cop	er Changed mple Status n romium kel anium ver	ppm	ASTM D5185m ASTM D5185m		Changed ABNORMAL	Not Changd SEVERE	Changed NORMAL
NEAR  All component wear rates are normal.  Nick  Tital  Silve  Alur  Lear  Cop	mple Status  romium kkel anium ver	ppm	ASTM D5185m ASTM D5185m		ABNORMAL	SEVERE	NORMAL
All component wear rates are normal.  Nick Tital Silve Alur Lear Cop	romium kel anium ver	ppm	ASTM D5185m		_	_	_
All component wear rates are normal.  Nick Tital Silve Alur Lear Cop	kel anium ver	ppm		00	5	7	7
Tital Silve Alun Leac Cop	anium ver	• •	AOTH DELOE	>20	<1	0	0
Silve Alur Lear Cop	ver	ppm	ASTM D5185m	>10	0	0	0
Alur Lead Cop		PPIII	ASTM D5185m		0	<1	0
Lead Cop		ppm	ASTM D5185m		0	0	0
Сор	ıminum	ppm	ASTM D5185m	>20	2	4	2
·	ad	ppm	ASTM D5185m	>20	2	1	2
Tin	pper	ppm	ASTM D5185m	>150	1	2	2
	ı	ppm	ASTM D5185m	>20	0	0	0
	nadium	ppm	ASTM D5185m		<1	0	0
Whi	ite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yell	llow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	con	ppm	ASTM D5185m	>20	5	9	8
	tassium	ppm	ASTM D5185m	>20	1	0	0
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	iter		WC Method	>0.1	NEG	NEG	NEG
	rticles >4µm		ASTM D7647		9187	164793	2815
	rticles >6µm		ASTM D7647		3735	<b>▲</b> 72227	520
	ticles >14μm		ASTM D7647	>160	<u>▲</u> 342	<b>2704</b>	33
	ticles >21µm		ASTM D7647		64	<u>^</u> 290	7
	ticles >38µm		ASTM D7647		0	2	0
	ticles >71µm		ASTM D7647		0	0	0
	Cleanliness		ISO 4406 (c)		<u>^</u> 20/19/16	▲ 25/23/19	19/16/1
		scalar	*Visual	NONE	NONE	NONE	NONE
	bris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
	nd/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	pearance	scalar	*Visual	NORML	NORML	NORML	NORM
	or ulsified Water	scalar	*Visual	NORML >0.1	NORML NEG	NORML NEG	NORM NEG
Lillu		Scalai	Visuai		NEG		INLO
	dium	ppm	ASTM D5185m		<1	<1	1
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	ron	ppm	ASTM D5185m		0	0	0
	rium	ppm	ASTM D5185m		0	0	0
	lybdenum	ppm	ASTM D5185m		5	4	7
	nganese	ppm	ASTM D5185m		0	0	0
	gnesium	ppm	ASTM D5185m		1	2	<1
	lcium	ppm	ASTM D5185m		119	115	134
	osphorus	ppm	ASTM D5185m		374	349	375
Zinc Sulfi		ppm	ASTM D5185m		500	447	474
		ppm	ASTM D5185m	3/19	1932	1772	1447
	d Number (AN) c @ 40°C	mg KOH/g cSt	ASTM D8045 ASTM D445	16	0.36 43.6	0.29 43.9	0.36 43.5







Certificate L2367

Laboratory Sample No.

Lab Number

Test Package : CONST

: ASC0007046 : 06210018 Unique Number: 11082882

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

: 14 Jun 2024 **Tested** : 17 Jun 2024 : 17 Jun 2024 - Wes Davis Diagnosed

**CAROLINA EXCAVATING** 1036 BRANCHVIEW DR, SUITE 106

CONCORD, NC US 28025

Contact: KEVIN LADGERWOOD kevin@carlinaexcavation.com

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)

T: F: