WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

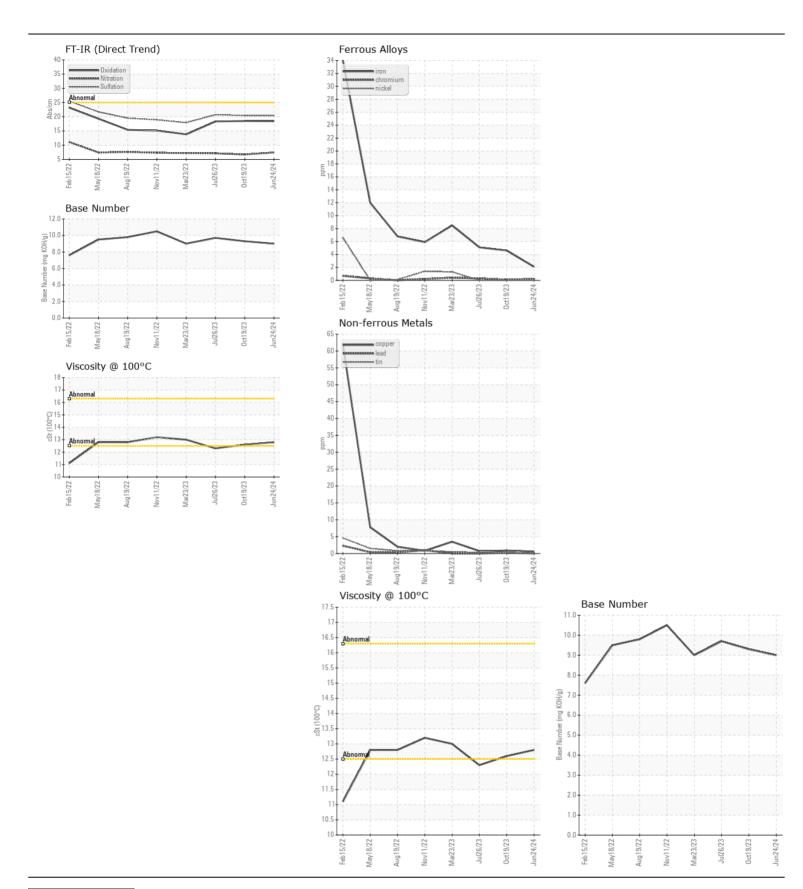
Ascendum Machinery

VOLVO A40G ED-05 (S/N A40GV352680)

Diesel Engine

VOLVO VDS-4.5 Premium Motor Oil 15W40 (--- GAL)

VOLVO VDS-4.5 Premium Moto		<u> </u>	4 ~ =/				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RESSMINERBATISH	Sample Number		Client Info		ASC0009722	ASC0005315	ASC0000352
Resample at the next service interval to monitor.	Sample Date		Client Info		24 Jun 2024	19 Oct 2023	26 Jul 2023
	Machine Age	hrs	Client Info		5008	4012	3591
	Oil Age	hrs	Client Info		996	421	544
	Filter Age	hrs	Client Info		0	0	544
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAD			ACTM DE10Em	. 100		5	
WEAR	Iron	ppm	ASTM D5185m		2		5
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m ASTM D5185m		<1 0	<1 0	<1 0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	. 0	0	0	0
	Aluminum	ppm	ASTM D5185m		2	1	<1
		ppm			0	. I	0
	Lead Copper	ppm	ASTM D5185m ASTM D5185m		0 <1	<1 <1	<1
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m	>10	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			Visuai		·····	NONL	INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	4
	Potassium	ppm	ASTM D5185m	>20	2	0	0
There is no indication of any contamination in the oil.	Fuel		WC Method	>6.0	<1.0	<1.0	0.7
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	6.7	7.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	20.4	20.7
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	2	2
·	Boron	ppm	ASTM D5185m		62	49	44
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	0
	Molybdenum	ppm	ASTM D5185m		45	43	40
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		418	494	535
	Calcium	ppm	ASTM D5185m		1736	1707	1496
	Phosphorus	ppm	ASTM D5185m		914	968	894
	Zinc	ppm	ASTM D5185m		1190	1153	1072
	Sulfur	ppm	ASTM D5185m		3110	3063	3342
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	18.5	18.3
	Base Number (BN)	mg KOH/g	ASTM D2896		9.0	9.3	9.7
	Visc @ 100°C	cSt	ASTM D445		12.8	12.6	12.3







Certificate L2367

Report Id: CARCONVC [WUSCAR] 06220802 (Generated: 06/27/2024 11:13:38) Rev: 1

Laboratory Sample No.

Lab Number : 06220802

: ASC0009722 Unique Number : 11098999

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Jun 2024

Tested : 26 Jun 2024 Diagnosed : 26 Jun 2024 - Wes Davis

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.

Test Package : CONST (Additional Tests: TBN)

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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F: