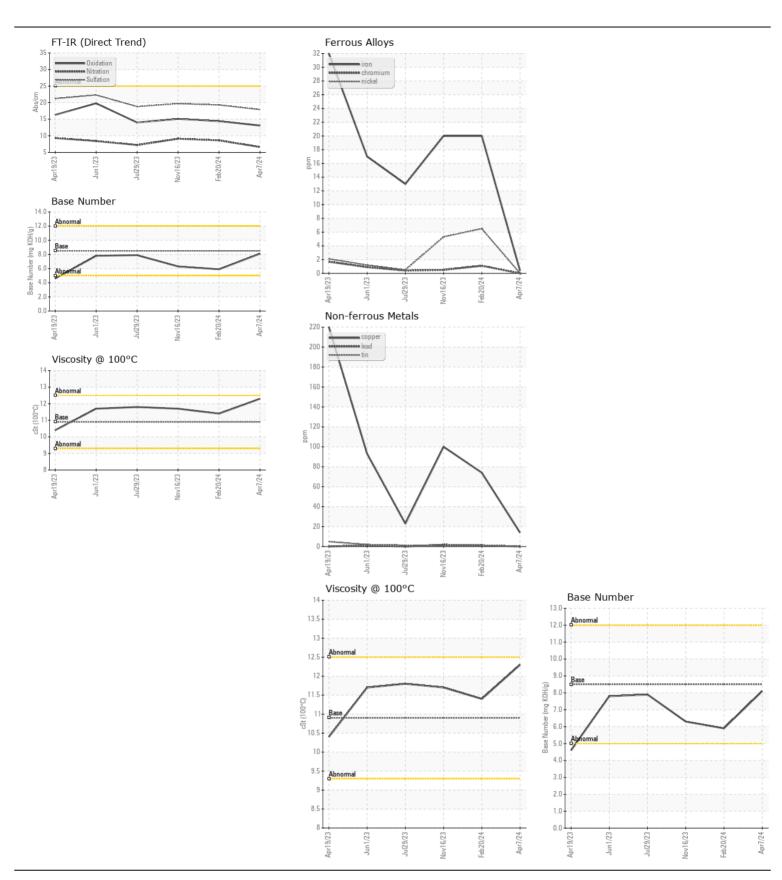
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**



Machine Id VOLVO A45G 13390 (S/N 353507)

Diesel Engine

DIESEL ENGINE OIL SAE 30 (- GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		ASC0002898	,	VCP412171
	Sample Date		Client Info		07 Apr 2024	20 Feb 2024	16 Nov 2023
	Machine Age	hrs	Client Info		3730	3730	3002
	Oil Age	hrs	Client Info		3730	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	<1	20	20
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	1	<1
	Nickel	ppm	ASTM D5185m	>2	0	6	5
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	6	4
	Lead	ppm	ASTM D5185m	>40	0	1	2
	Copper	ppm	ASTM D5185m	>330	14	74	100
	Tin	ppm	ASTM D5185m	>15	0	1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>25	0	5	4
	Potassium	ppm	ASTM D5185m	>20	9	<1	0
	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.5	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	6.6	8.6	9.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	19.3	19.7
	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	>75	3	2	2
	Boron	ppm	ASTM D5185m	250	3	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.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	54	62	56
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	854	896	953
	Calcium	ppm	ASTM D5185m	3000	1010	1122	1161
	Phosphorus	ppm	ASTM D5185m	1150	928	916	907
	Zinc	ppm	ASTM D5185m		1061	1194	1151
	Sulfur	ppm	ASTM D5185m	4250	3114	2994	2686
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	14.4	15.1
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.1	5.9	6.3
	Visc @ 100°C	cSt	ASTM D445	10.9	12.3	11.4	11.7







Certificate L2367

Laboratory Sample No.

Lab Number : 06157393

: ASC0002898

Unique Number : 10992816 Test Package : CONST (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Apr 2024 **Tested**

: 24 Apr 2024 Diagnosed : 24 Apr 2024 - Wes Davis

117 - ASCENDUM MACHINERY INC - GREENVILLE

2002 N GREENE ST GREENVILLE, NC

US 27834 Contact: ALLEN WILLIAMS

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. allen.williams@ascendummachinery.com T:

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

F: (704)494-8197