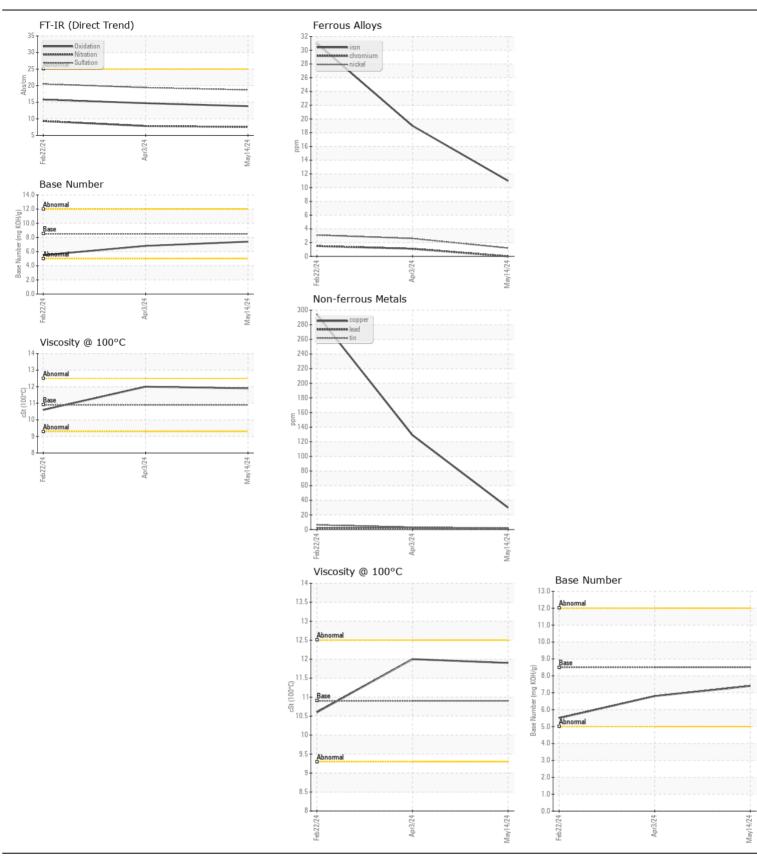
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**



Machine Id VOLVO A45G 13415 (S/N 752170)

Diesel Engine

DIESEL ENGINE OIL SAE 30 (- GAL)						
RECOMMENDATION Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ASC0008809	ASC0002549	ASC0008633
	Sample Date		Client Info		14 May 2024	03 Apr 2024	22 Feb 2024
	Machine Age	hrs	Client Info		1925	1337	720
	Oil Age	hrs	Client Info		1308	617	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	11	19	31
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	1	2
	Nickel	ppm	ASTM D5185m	>2	1	3	3
	Titanium	ppm	ASTM D5185m		0	2	0
	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m	>25	2	3	4
	Lead	ppm	ASTM D5185m	>40	2	2	2
	Copper	ppm	ASTM D5185m	>330	30	129	294
	Tin	ppm	ASTM D5185m	>15	2	3	6
	Vanadium	ppm	ASTM D5185m		0	<1	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	4	8	29
	Potassium	ppm	ASTM D5185m	>20	2	2	2
	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	0.4	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.8	9.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.4	20.5
	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	2	0	3
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	250	2	3	30
	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	59	65	94
	Manganese	ppm	ASTM D5185m		<1	1	2
	Magnesium	ppm	ASTM D5185m	450	887	730	57
	Calcium	ppm	ASTM D5185m	3000	1046	1143	2366
	Phosphorus	ppm	ASTM D5185m	1150	972	805	1100
	Zinc	ppm	ASTM D5185m	1350	1168	1072	1278
	Sulfur	ppm	ASTM D5185m	4250	3063	2399	3859
	Oxidation	Abs/.1mm	*ASTM D7414		13.8	14.7	15.8
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.4	6.8	5.5
	Visc @ 100°C	cSt	ASTM D445		11.9	12.0	10.6







Laboratory Sample No.

Lab Number : 06193735

: ASC0008809 Unique Number : 11050487

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

: 29 May 2024 **Tested** Diagnosed Test Package : CONST (Additional Tests: TBN)

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

: 30 May 2024 : 30 May 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:

Submitted By: Service - Brandon Lewis

F: (704)494-8197