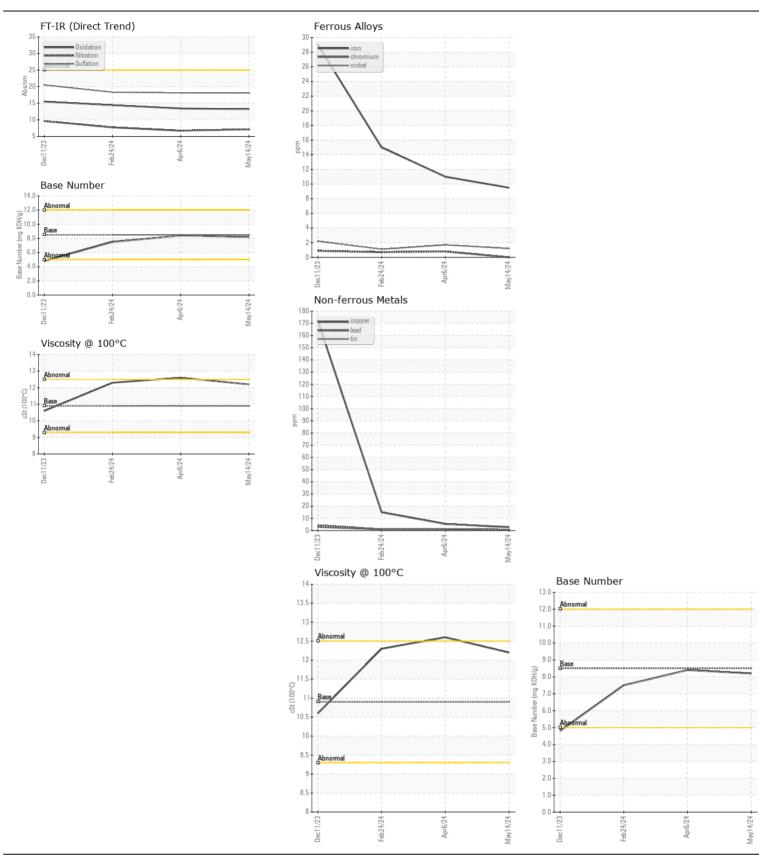
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**



Machine Id VOLVO A45G 13409 (S/N 353519) Component Diesel Engine

DIESEL ENGINE OIL SAE 30 (- GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number	OOW	Client Info	Limitorion	ASC0010101	,	ASC0008507
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		14 May 2024	06 Apr 2024	24 Feb 2024
	Machine Age	hrs	Client Info		2942	2389	1995
	Oil Age	hrs	Client Info		2548	394	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	10	11	15
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	1	2	1
	Titanium	ppm	ASTM D5185m		0	2	0
	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m	>25	2	3	3
	Lead	ppm	ASTM D5185m	>40	<1	<1	1
	Copper	ppm	ASTM D5185m	>330	3	5	15
	Tin	ppm	ASTM D5185m	>15	1	2	1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	5	6
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	2	1
There is no indication of any contamination in the oil.	Fuel	ррпп		>6.0	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	6.7	7.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	18.1	18.3
	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	2
	Boron	ppm	ASTM D5185m		2	3	2
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	100	59	60	64
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	887	846	970
	Calcium	ppm	ASTM D5185m	3000	1037	1039	1138
	Phosphorus	ppm	ASTM D5185m		997	899	1070
	Zinc	ppm	ASTM D5185m		1175	1124	1248
	Sulfur	ppm	ASTM D5185m		3287	2918	3194
	Oxidation	Abs/.1mm	*ASTM D7414		13.2	13.4	14.4
	Base Number (BN)				8.2	8.4	7.5
	Visc @ 100°C	cSt	ASTM D445	10.9	12.2	12.6	12.3





Certificate L2367

Report Id: VOLVO8769 [WUSCAR] 06193733 (Generated: 05/30/2024 15:36:37) Rev: 1

Laboratory Sample No.

: ASC0010101 Lab Number : 06193733 Unique Number : 11050485

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

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

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

: 29 May 2024 : 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