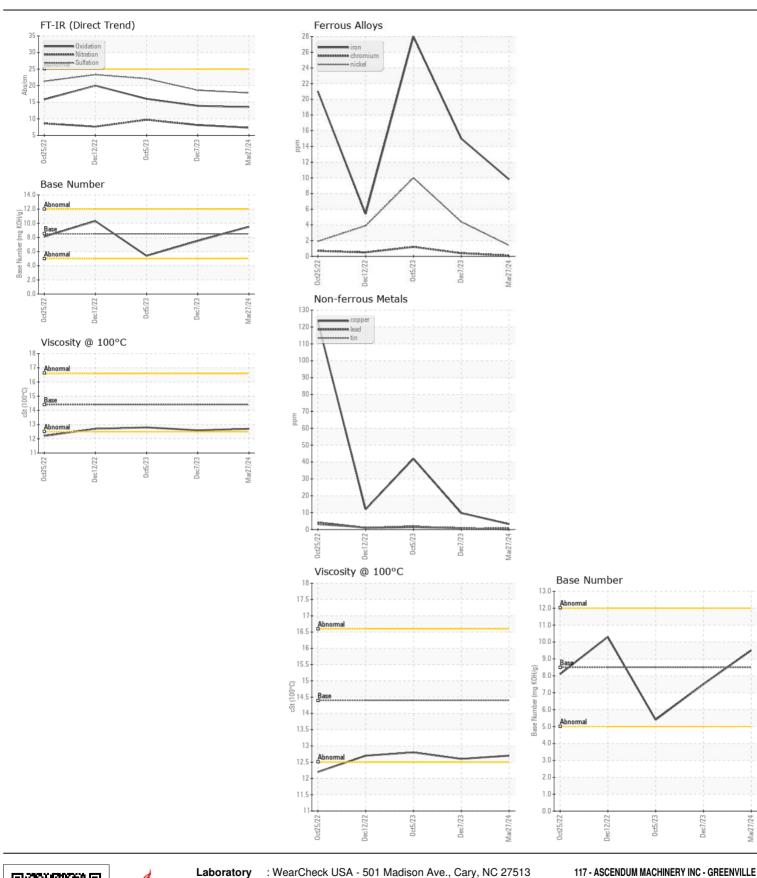
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**



Machine Id **VOLVO A45G 353072**

Diesel Engine

DIESEL ENGINE OIL SAE 40 (- 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		ASC0008751	VCP423893	VCP439643
	Sample Date		Client Info		27 Mar 2024	07 Dec 2023	05 Oct 2023
	Machine Age	hrs	Client Info		5178	4693	4124
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	10	15	28
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	1
	Nickel	ppm	ASTM D5185m	>2	1	4	<u> </u>
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	4	3	4
	Lead	ppm	ASTM D5185m	>40	0	<1	1
	Copper	ppm	ASTM D5185m	>330	3	10	42
	Tin	ppm	ASTM D5185m	>15	1	<1	2
	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	5	4	6
	Potassium	ppm	ASTM D5185m	>20	<1	0	<1
	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	0.5	0.7	1.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	8.1	9.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	18.6	22.1
	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	>216	2	1	1
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	6	3	5
	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	63	58	62
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m	450	918	1053	945
	Calcium	ppm	ASTM D5185m	3000	1056	1201	1092
	Phosphorus	ppm	ASTM D5185m	1150	1038	1116	916
	Zinc	ppm	ASTM D5185m		1208	1282	1239
	Sulfur	ppm	ASTM D5185m	4250	3515	3404	2619
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	13.9	16.0
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.5	7.5	5.4
	Visc @ 100°C	cSt	ASTM D445	14.4	12.7	12.6	12.8





Certificate L2367

Laboratory Sample No. Unique Number: 10992739

Lab Number : 06157316

: ASC0008751

Received **Tested** Diagnosed

: 23 Apr 2024 : 24 Apr 2024 : 24 Apr 2024 - Wes Davis

117 - ASCENDUM MACHINERY INC - GREENVILLE

2002 N GREENE ST GREENVILLE, NC

US 27834 Contact: ALLEN WILLIAMS

allen.williams@ascendummachinery.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)

Test Package : CONST (Additional Tests: TBN)

F: (704)494-8197

Contact/Location: ALLEN WILLIAMS - VOLVO8769

T: