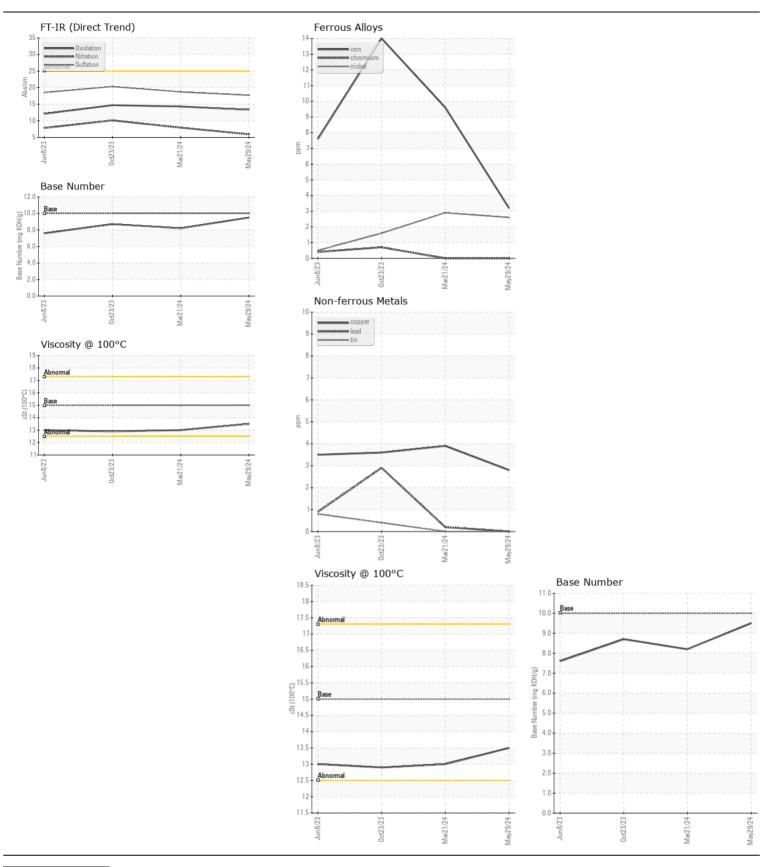
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

Machine Id

## **VOLVO A45GFS 352239**

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0011071	ASC0010372	VCP44110
	Sample Date		Client Info		29 May 2024	21 Mar 2024	23 Oct 202
	Machine Age	hrs	Client Info		4667	4399	3887
	Oil Age	hrs	Client Info		268	512	0
	Filter Age	hrs	Client Info		268	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ATTENTION	SEVERE
VEAR	Iron	ppm	ASTM D5185m	>100	3	10	14
	Chromium	ppm	ASTM D5185m	>20	0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	3	3	2
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m		2	<1	2
	Lead	ppm	ASTM D5185m		0	<1	3
	Copper	ppm	ASTM D5185m	>330	3	4	4
	Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	2	3	5
	Potassium	ppm	ASTM D5185m	>20	19	<b>3</b> 1	<b>173</b>
There is no indication of any contamination in the oil.	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	0.0	▲ 0.10
	Soot %	%	*ASTM D7844	>3	0.1	0.4	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	5.9	7.9	10.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	18.7	20.3
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		41	<b>127</b>	<b>762</b>
	Boron	ppm	ASTM D5185m	2.5	4	<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.	Barium	ppm	ASTM D5185m	0.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0.7	57	60	77
	Manganese	ppm	ASTM D5185m	0.0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	256	921	920	911
	Calcium	ppm	ASTM D5185m	2057	1045	1128	1177
	Phosphorus	ppm	ASTM D5185m	935	1046	1012	937
	Zinc	ppm	ASTM D5185m	1223	1236	1163	1300
	Sulfur	ppm	ASTM D5185m	4079	3654	3453	3232
	Oxidation	Abs/.1mm	*ASTM D7414		13.3	14.3	14.7
	Base Number (BN)		ASTM D2896		9.5	8.2	8.7
	, ,	cSt	ASTM D445			13.0	12.9





Certificate L2367

Report Id: VOLVO8769 [WUSCAR] 06212741 (Generated: 06/21/2024 21:37:09) Rev: 1

Laboratory Sample No.

Lab Number : 06212741

Unique Number : 11085605 Test Package : CONST (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0011071 Received : 17 Jun 2024 **Tested** : 19 Jun 2024

Diagnosed

: 19 Jun 2024 - Angela Borella

117 - ASCENDUM MACHINERY INC - GREENVILLE

2002 N GREENE ST GREENVILLE, NC US 27834

Contact: ALLEN WILLIAMS

F: (704)494-8197

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)

Submitted By: GAGE PARRISH