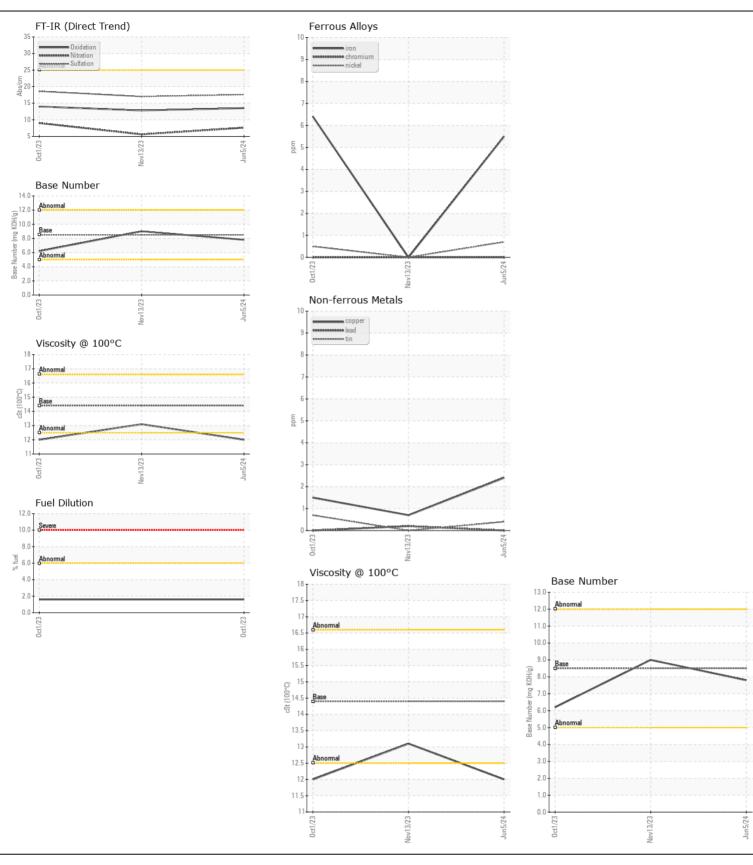
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 



Machine Id **VOLVO A45G 352468** 

Diesel Engine

DIESEL ENGINE OIL SAE 40 (	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number	00	Client Info	21111071011	ASC0010107	VCP441394	
	Sample Date		Client Info		05 Jun 2024	13 Nov 2023	01 Oct 2023
	Machine Age	hrs	Client Info		4228	3716	3637
	Oil Age	hrs	Client Info		512	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	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	6	0	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	0	0
	Nickel	ppm	ASTM D5185m	>2	<1	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	3	0	2
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	2	<1	2
	Tin	ppm	ASTM D5185m	>15	<1	0	<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	Silicon	ppm	ASTM D5185m	>25	4	2	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	<1	<1
	Fuel	%	ASTM D3524		<1.0	<1.0	1.6
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.6	5.6	9.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	17.0	18.6
	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
	Boron	ppm	ASTM D5185m	250	8	7	4
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	61	56	61
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	450	923	908	958
	Calcium	ppm	ASTM D5185m	3000	1085	1026	1052
	Phosphorus	ppm	ASTM D5185m	1150	1085	975	1049
	Zinc	ppm	ASTM D5185m		1238	1224	1266
	Sulfur	ppm	ASTM D5185m	4250	3645	3020	3055
	Oxidation	Abs/.1mm	*ASTM D7414		13.5	12.8	14.0
	Base Number (BN)	mg KOH/g			7.8	9.0	6.2
	Visc @ 100°C	cSt	ASTM D445	14.4	12.0	13.1	12.0







Certificate L2367

Laboratory Sample No.

Lab Number : 06212753 Unique Number: 11085617

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0010107

**Tested** Diagnosed Test Package : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN )

Received : 17 Jun 2024 : 19 Jun 2024

: 19 Jun 2024 - Angela Borella

117 - ASCENDUM MACHINERY INC - GREENVILLE

2002 N GREENE ST GREENVILLE, NC US 27834

Contact: ALLEN WILLIAMS allen.williams@ascendummachinery.com T:

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)

F: (704)494-8197