WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

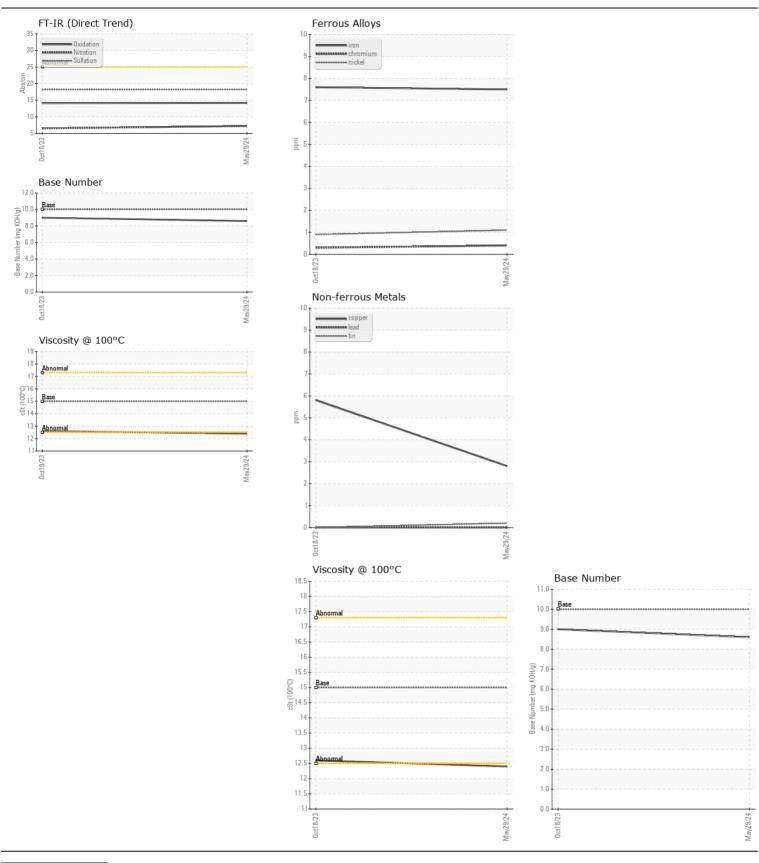


Machine Id VOLVO A45GFS 352466

Diesel Engine

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

DECOMMENDATION	- .			11 1:00		V	
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0011009	VCP443111	
	Sample Date		Client Info		29 May 2024		
	Machine Age	hrs	Client Info		3913	3241	
	Oil Age	hrs	Client Info		672	0	
	Filter Age	hrs	Client Info		0	O Chamanad	
	Oil Changed		Client Info		N/A N/A	Changed	
	Filter Changed Sample Status		Client Info		N/A NORMAL	Changed NORMAL	
	Sample Status				NORWAL	NONIVIAL	
WEAR	Iron	ppm	ASTM D5185m	>100	8	8	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m	>2	1	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>25	2	1	
	Lead	ppm	ASTM D5185m	>40	0	0	
	Copper	ppm	ASTM D5185m	>330	3	6	
	Tin	ppm	ASTM D5185m	>15	<1	0	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Ciliaan		ACTM DE10Em	. 05	4	4	
CONTAMINATION	Silicon	ppm	ASTM D5185m		4 2	0	
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m WC Method	>6.0		<1.0	
	Water		WC Method		<1.0 NEG	NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	~3	0.2	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.5	
	Sulfation	Abs/.1mm	*ASTM D7415		18.2	18.2	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	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		ASTM D5185m		6	9	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		58	57	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		932	912	
	Calcium	ppm	ASTM D5185m		1141	1145	
	Phosphorus	ppm	ASTM D5185m		1082	936	
	Zinc Sulfur	ppm	ASTM D5185m		1259	1250 3164	
	Oxidation	ppm Abc/ 1mm	*ASTM D5185m		3626 14.2	14.1	
		Abs/.1mm			8.6	9.0	
	Base Number (BN) Visc @ 100°C	cSt	ASTM D2896 ASTM D445			12.6	
	visc @ 100 C	COL	79 INI D449	15.0	12.4	12.0	





Certificate L2367

Laboratory Sample No.

: ASC0011009 Lab Number : 06212743 Unique Number : 11085607

Test Package : CONST (Additional Tests: TBN)

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

: 19 Jun 2024 - Angela Borella

117 - ASCENDUM MACHINERY INC - GREENVILLE

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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)

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