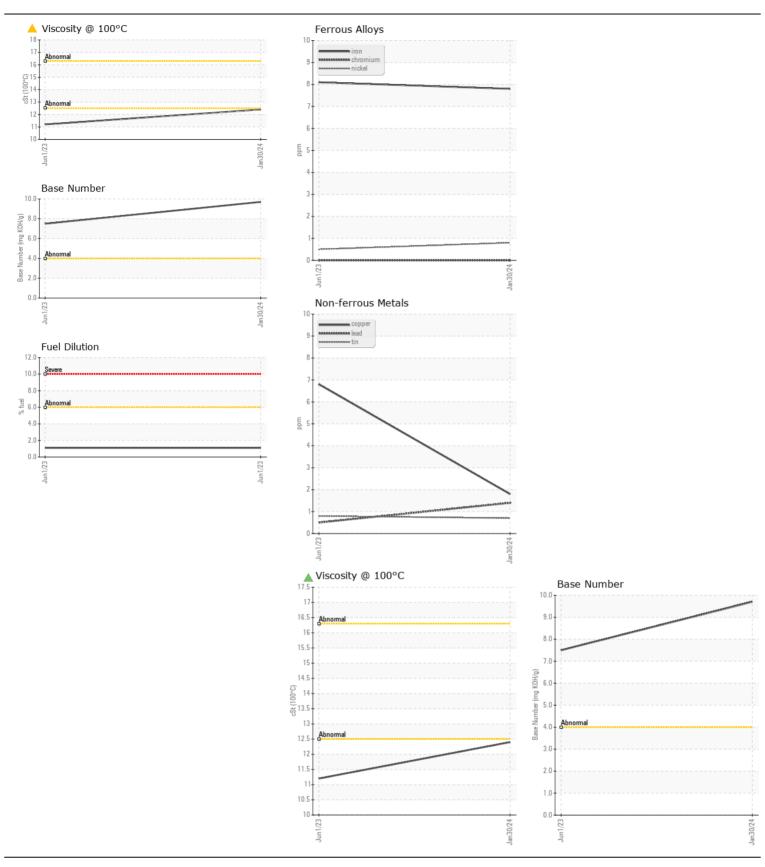
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

Ascendum Machinery/250 Hour CSA Wachine Id VOLVO EC330B 2287 (S/N 10518)

Component Diesel Engine

VOLVO VDS-4.5 Premium Moto	or Oil 15W40	((GAL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TESSIMILERBATION	Sample Number		Client Info		ASC0007742	VCP0005718	
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		30 Jan 2024	01 Jun 2023	
	Machine Age	hrs	Client Info		5500	546	
	Oil Age	hrs	Client Info		4954	546	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ATTENTION	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>100	8	8	
WEAT	Chromium	ppm	ASTM D5185m		0	0	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m	710	0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m		2	0	
	Lead	ppm	ASTM D5185m		1	<1	
	Copper	ppm	ASTM D5185m		2	7	
	Tin	ppm	ASTM D5185m		- <1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	3	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	1	
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		<1.0	1.1	
	Water		WC Method	>0.1	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.2	0.2	
	Nitration	Abs/cm		>20	6.9	8.1	
	Sulfation	Abs/.1mm	*ASTM D7415		21.8	19.1	
	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	"VISUAI	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	3	
	Boron	ppm	ASTM D5185m		59	51	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		35	46	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		449	637	
	Calcium	ppm	ASTM D5185m		1630	1598	
	Phosphorus	ppm	ASTM D5185m		953	951	
	Zinc	ppm	ASTM D5185m		1121	1161	
	Sulfur	ppm	ASTM D5185m		3014	4077	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	13.9	
	Base Number (BN)	mg KOH/g	ASTM D2896		9.7	7.5	
	Visc @ 100°C	cSt	ASTM D445		12.4	11.2	







Laboratory Sample No.

Lab Number **Unique Number**

: 06075528 : 10857619

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0007742 Recieved : 31 Jan 2024 Diagnosed : 01 Feb 2024

Diagnostician : Don Baldridge **Test Package**: CONST (Additional Tests: FuelDilution, TBN)

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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