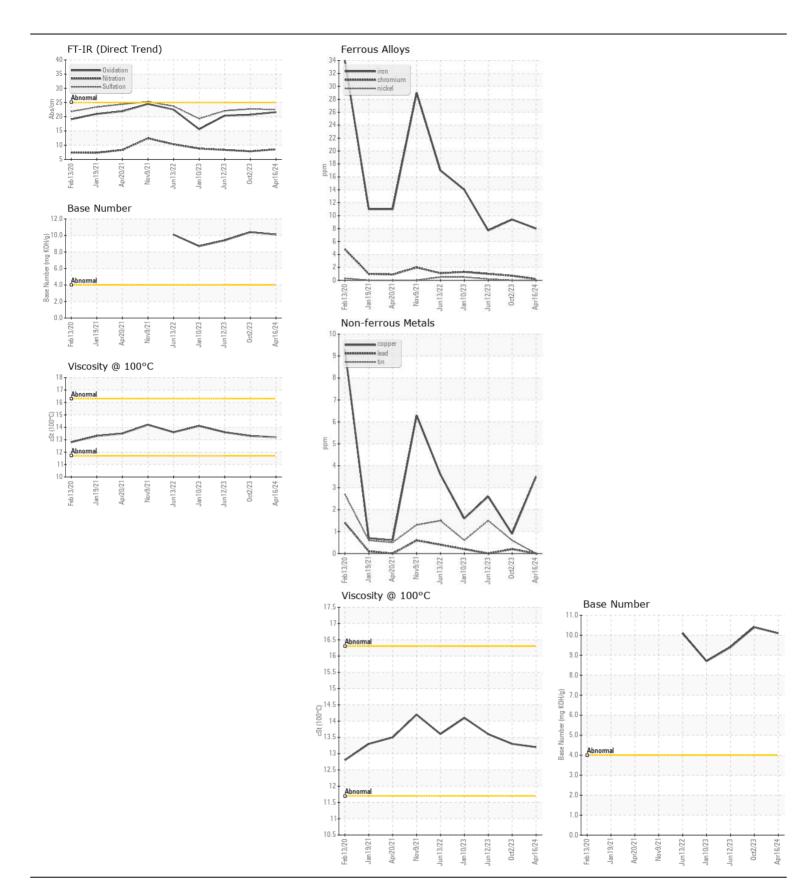
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

## **Ascendum Machinery VOLVO L70H 623725**

**Diesel Engine** 

VOLVO VDS-4.5 Premium Moto	or Oil 15W40	(5 G	AL)		.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ASC0007003		ASC0000189
Resample at the next service interval to monitor.	Sample Date		Client Info		16 Apr 2024	02 Oct 2023	12 Jun 2023
	Machine Age	hrs	Client Info		6990	5924	5522
	Oil Age	hrs	Client Info		1066	402	687
	Filter Age	hrs	Client Info		0	0	687
	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	8	9	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	<1	1
	Nickel	ppm	ASTM D5185m	>10	0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>10	4	4	7
	Lead	ppm	ASTM D5185m	>20	0	<1	0
	Copper	ppm	ASTM D5185m	>15	4	<1	3
	Tin	ppm	ASTM D5185m	>10	0	<1	2
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	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	>20	5	7	6
	Potassium	ppm	ASTM D5185m	>20	2	0	2
	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.6	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	7.8	8.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	22.7	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	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	2
	Boron	ppm	ASTM D5185m		31	30	26
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
	Molybdenum	ppm	ASTM D5185m		43	42	47
	Manganese	ppm	ASTM D5185m		0	<1	1
	Magnesium	ppm	ASTM D5185m		508	529	670
	Calcium	ppm	ASTM D5185m		1838	1711	1724
	Phosphorus	ppm	ASTM D5185m		1100	950	1047
	Zinc	ppm	ASTM D5185m		1220	1169	1287
	Sulfur	ppm	ASTM D5185m		3053	3021	3938
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.6	20.7	20.4
	Base Number (BN)				10.1	10.4	9.4
	Visc @ 100°C	cSt	ASTM D445		13.2	13.3	13.6







Certificate L2367

Laboratory Sample No. Unique Number: 10981855

Lab Number : 06151777

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0007003

Received **Tested** 

: 17 Apr 2024 : 18 Apr 2024

Diagnosed : 18 Apr 2024 - Wes Davis Test Package : CONST ( Additional Tests: TBN )

**EGGER TIMBERPAK** 1801 COTTONWOOD ST

CHARLOTTE, NC US 28206

Contact: Service Manager

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)

T:

F: