WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

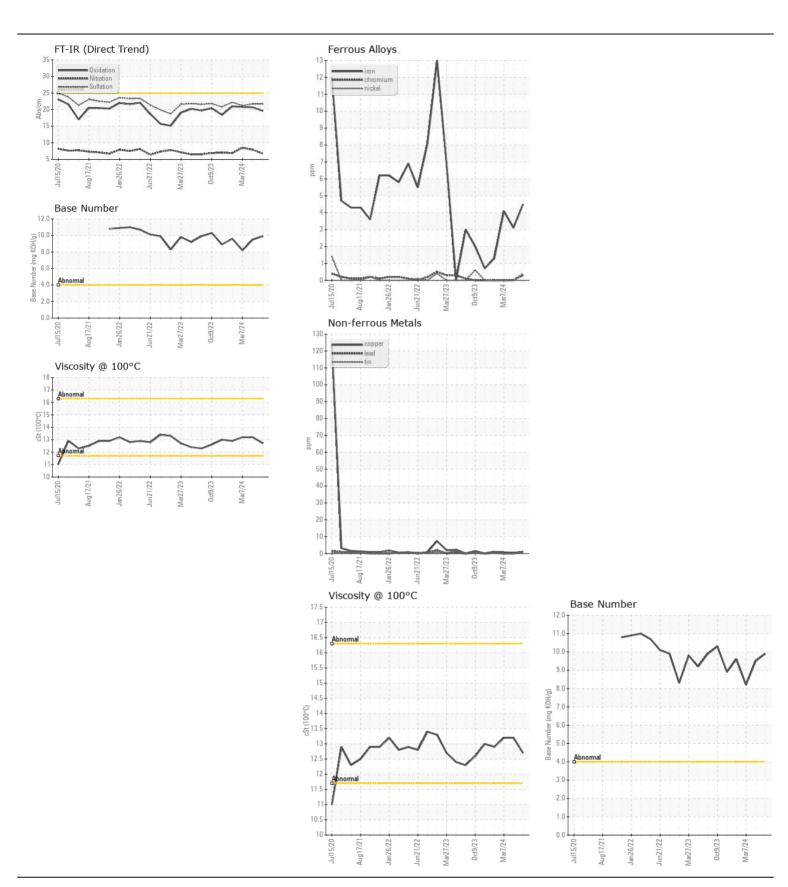
Area

## Ascendum Machinery VOLVO L180H 15 (S/N 5263) Component



VOLVO VDS-4.5 Premium Motor Oil 15W40 (--- GAL)

VOLVO VDS-4.5 Premium Motor Oil 15W40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HESSIMMENDATION	Sample Number	OOW	Client Info	Little	ASC0009813	ASC0007488	ASC0007555
Resample at the next service interval to monitor.	Sample Date		Client Info		14 Jun 2024	15 Apr 2024	07 Mar 2024
	Machine Age	hrs	Client Info		13055	12150	11526
	Oil Age	hrs	Client Info		905	624	1024
	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
WEAD	lvan		ACTM DE10Em	. 100	4	0	4
WEAR  All component wear rates are normal.	Iron Chromium	ppm	ASTM D5185m ASTM D5185m		4	3	4
	Nickel	ppm			<1	0	0
		ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m	0	<1	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		2	<1	<1
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m	>10	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4	4	3
	Potassium	ppm	ASTM D5185m	>20	2	<1	0
There is no indication of any contamination in the oil.	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	6.7	7.9	8.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	21.7	21.2
	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
	<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	2
TEGID CONDITION	Boron	ppm	ASTM D5185m		35	32	34
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		<1	<1	0
	Molybdenum	ppm	ASTM D5185m		41	46	38
	Manganese		ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		471	487	416
	Calcium	ppm	ASTM D5185m		1622	1855	1786
	Phosphorus	ppm	ASTM D5185m		827	1023	943
	Zinc		ASTM D5185m		1067	1023	1074
	Sulfur	ppm	ASTM D5185m		2874	3902	3278
		ppm Abo/ 1mm		- OF			
	Oxidation	Abs/.1mm	*ASTM D7414	>20	19.6	20.7	20.8
	Base Number (BN)		ASTM D2896		9.9	9.5	8.2
	Visc @ 100°C	cSt	ASTM D445		12.7	13.2	13.2







Laboratory Sample No.

Lab Number : 06213124 Unique Number: 11085988

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0009813

Received **Tested** 

Diagnosed

: 19 Jun 2024 : 19 Jun 2024 - Wes Davis

: 18 Jun 2024

Test Package : CONST (Additional Tests: TBN) Certificate L2367 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)

**EGGER WOOD PRODUCTS** 

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