WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

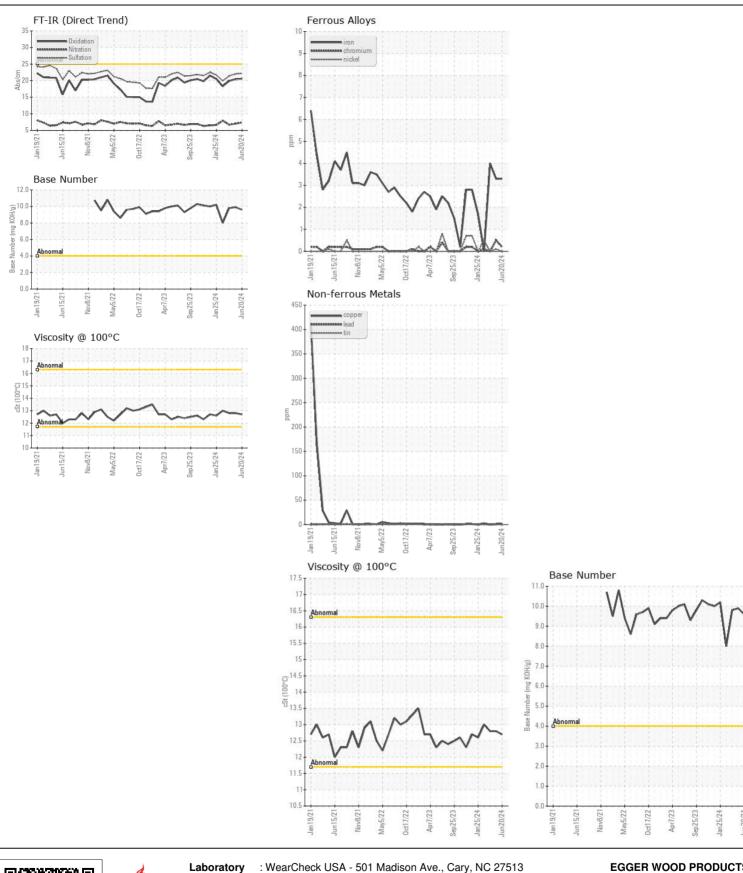
Area

Ascendum Machinery VOLVO L180H 14 (S/N 5269)

Diesel Engine

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
	Sample Number		Client Info		ASC0009729	ASC0009998	ASC0007168
Resample at the next service interval to monitor.	Sample Date		Client Info		20 Jun 2024	02 May 2024	27 Mar 2024
	Machine Age	hrs	Client Info		17043	16439	15991
	Oil Age	hrs	Client Info		604	448	433
	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	nnm	ASTM D5185m	> 100	3	3	4
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		ა <1	<1	0
	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m	>10	<1	<1	0
	Silver	ppm	ASTM D5185m	~2	0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	1
	Lead		ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		2	<1	0
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m	>10	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			Visuai				NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3	5	2
	Potassium	ppm	ASTM D5185m	>20	2	2	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	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.0	6.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	22.0	21.4
	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		<1	<1	2
TESIS SONSTITION	Boron	ppm	ASTM D5185m		29	44	45
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		38	42	44
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		504	490	540
	Calcium	ppm	ASTM D5185m		1689	1620	1837
	Phosphorus	ppm	ASTM D5185m		936	1024	1043
	Zinc	ppm	ASTM D5185m		1174	1134	1216
	Sulfur	ppm	ASTM D5185m		2927	3223	3895
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	20.4	19.9
	Base Number (BN)		ASTM D2896	5	9.6	9.9	9.8
	Visc @ 100°C	cSt	ASTM D445		12.7	12.8	12.8
	1.00 @ 100 0	001	. 10 1111 0 1110		·		0







Laboratory Sample No.

Lab Number : 06216555 Unique Number : 11089419

: ASC0009729

Received **Tested** Diagnosed

: 24 Jun 2024

: 24 Jun 2024 - Wes Davis

: 21 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.

EGGER WOOD PRODUCTS

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)