

Ascendum Machinery Machine Id VOLVO L180H 43 (S/N 5598)

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0001673	ASC0001655	ASC0001968
	Sample Date		Client Info		16 Apr 2024	25 Jan 2024	15 Dec 2023
	Machine Age	hrs	Client Info		7050	6459	6040
	Oil Age	hrs	Client Info		591	419	533
	Filter Age	hrs	Client Info		0	0	533
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	0	3	2
	Chromium	ppm	ASTM D5185m		0	0	0
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	10	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		<1	1	<1
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		0	6	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		1	2	<1
	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.2	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	6.5	7.0
	Sulfation	Abs/.1mm	*ASTM D7415		20.5	21.8	21.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.1	NORML NEG	NORML NEG	NORML NEG
		Scalai	visuai	20.1		NLG	NLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	1
	Boron	ppm	ASTM D5185m		53	59	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		45	39	37
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		302	503	503
	Calcium	ppm	ASTM D5185m		1822	1659	1661
	Phosphorus	ppm	ASTM D5185m		925	956	891
	Zinc	ppm	ASTM D5185m		1040	1110	1127
	Sulfur	ppm	ASTM D5185m		3385	2873	2947
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	20.6	20.2
	Base Number (BN)	mg KOH/g	ASTM D2896		8.0	9.8	9.8
	Vian @ 10000	- 01	AOTA DATE			10.0	10.1

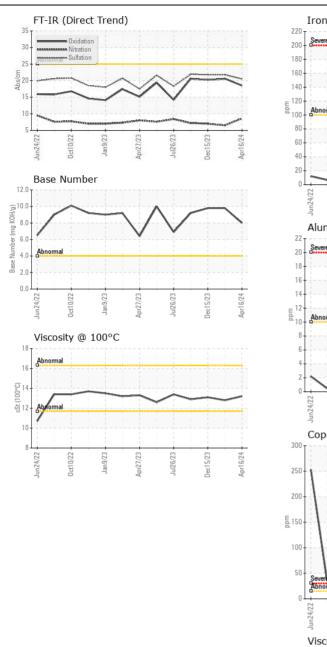
12.8

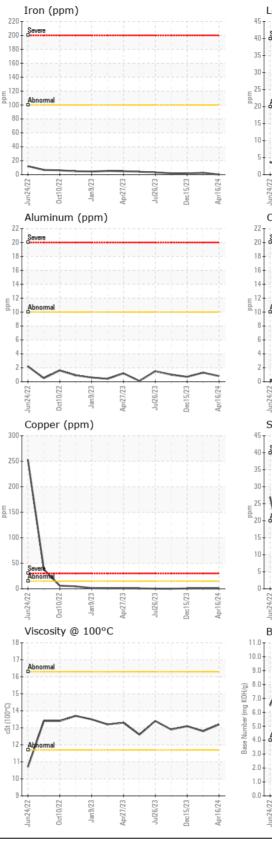
13.1

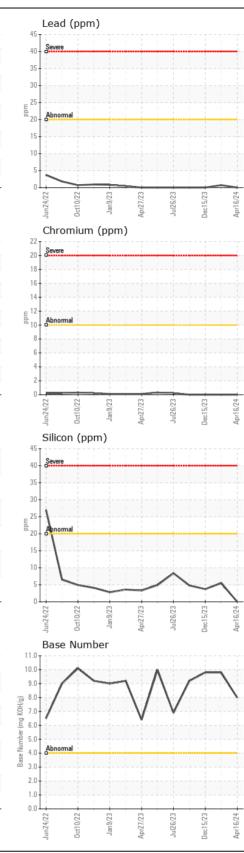
13.2

ASTM D445

Visc @ 100°C cSt







Sample No. : ASC0001673 : 23 Apr 2024 Lab Number : 06157407 Tested LINWOOD, NC : 24 Apr 2024 Diagnosed : 24 Apr 2024 - Wes Davis Unique Number : 10992830 Test Package : MOBCE (Additional Tests: TBN) Contact: HELMUT THOMAY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. helmut.thomay@egger.com * - 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)

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

Received

Laboratory

Submitted By: KARRINGTON RENDLEMAN Page 2 of 2

EGGER WOOD PRODUCTS

300 EGGER PARKWAY

US 27299

T:

F: