

## Ascendum Machinery

VOLVO L120H RL67 (S/N L120HV632516)

**Diesel Engine** 

VOLVO VDS-4.5 Premium Motor Oil 15W40 (5 GAL)

RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
	ampling has been noted. No t this time. Resample at the next	Sample Number		Client Info		ASC0011270	ASC0006118	VCP414691
Oil and filter change at the time of same		Sample Date		Client Info		17 Jun 2024	01 Dec 2023	15 Sep 2023
service interval to monitor.		Machine Age	hrs	Client Info		10019	9458	8981
		Oil Age	hrs	Client Info		500	477	313
		Filter Age	hrs	Client Info		500	0	0
		Oil Changed		Client Info		Changed	Changed	Changed
		Filter Changed		Client Info		Changed	Changed	Changed
		Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR		Iron	ppm	ASTM D5185m	>100	21	15	18
	<b>.</b>	Chromium	ppm	ASTM D5185m	>10	1	1	1
The aluminum level is abnormal. All o normal.	other component wear rates are	Nickel	ppm	ASTM D5185m	>10	<1	<1	0
		Titanium	ppm	ASTM D5185m		7	11	<1
		Silver	ppm	ASTM D5185m	>2	0	0	0
		Aluminum	ppm	ASTM D5185m	>10	<b>A</b> 29	24	<b>1</b> 3
		Lead	ppm	ASTM D5185m		<1	0	1
		Copper	ppm	ASTM D5185m	>15	1	<1	2
		Tin	ppm	ASTM D5185m	>10	<1	<1	1
		Vanadium	ppm	ASTM D5185m		0	<1	0
		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION		Silicon	ppm	ASTM D5185m	>20	<b>4</b> 23	17	20
CONTAMINATION		Potassium	ppm	ASTM D5185m		3	2	2
Elemental level of silicon (Si) above r	mal.	Fuel	ppiii	WC Method	>6.0	<1.0	<1.0	<1.0
		Water		WC Method		NEG	NEG	NEG
		Glycol		WC Method	20.1	NEG	NEG	NEG
		Soot %	%	*ASTM D7844	>3	0.5	0.4	0.7
		Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.0	7.7
		Sulfation	Abs/.1mm	*ASTM D7415		20.1	19.5	19.2
		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	NORM
		Odor	scalar	*Visual	NORML	NORML	NORML	NORM
		Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
LUID CONDITION		Codium		ACTM DE10Em		 າ	4	
		Sodium	ppm	ASTM D5185m		2	1	4
he BN result indicates that there is sui	, ,	Boron	ppm	ASTM D5185m		15	12	2
oil. The condition of the oil is accepta		Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m		0 57	2 54	0 62
		•	ppm	ASTM D5185m ASTM D5185m			54 <1	<1
		Manganese	ppm			<1		
		Magnesium	ppm	ASTM D5185m		931	882	981
		Calcium	ppm	ASTM D5185m		1158	1162	1144
		Phosphorus	ppm	ASTM D5185m		1049	1069	1074
		Zinc	ppm	ASTM D5185m		1259	1268	1300
		Sulfur	ppm	ASTM D5185m	05	3555	3126	3707
		Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	15.6	14.5
		Base Number (BN)	mg KUH/g	ASTM D2896		7.6	8.5	8.4

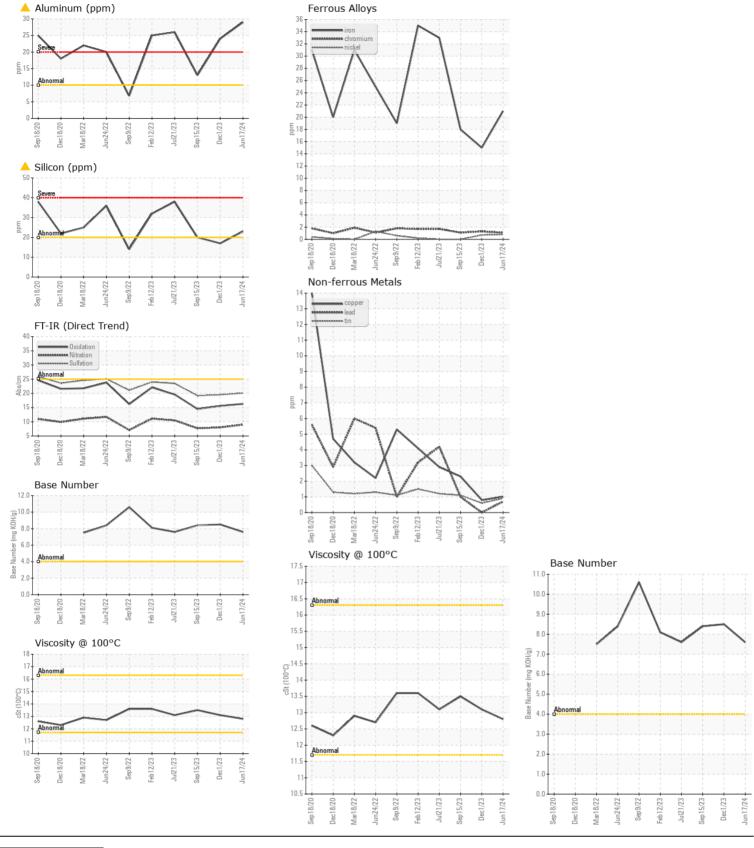
13.1

13.5

12.8

ASTM D445

Visc @ 100°C cSt



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **HILCO TRANSPORT** Sample No. : ASC0011270 Received 7700 KENMONT RD : 19 Jun 2024 : 06214451 Lab Number GREENSBORO, NC Tested : 20 Jun 2024 : 21 Jun 2024 - Don Baldridge US 27409 Unique Number : 11087315 Diagnosed Test Package : CONST (Additional Tests: TBN) Contact: MIKE LAUGHEAD Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mlaughead@hilcotransport.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)273-9441 F: (336)273-9701

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

Submitted By: RYAN ZEBALLOS Page 2 of 2