WEAR CONTAMINATION FLUID CONDITION

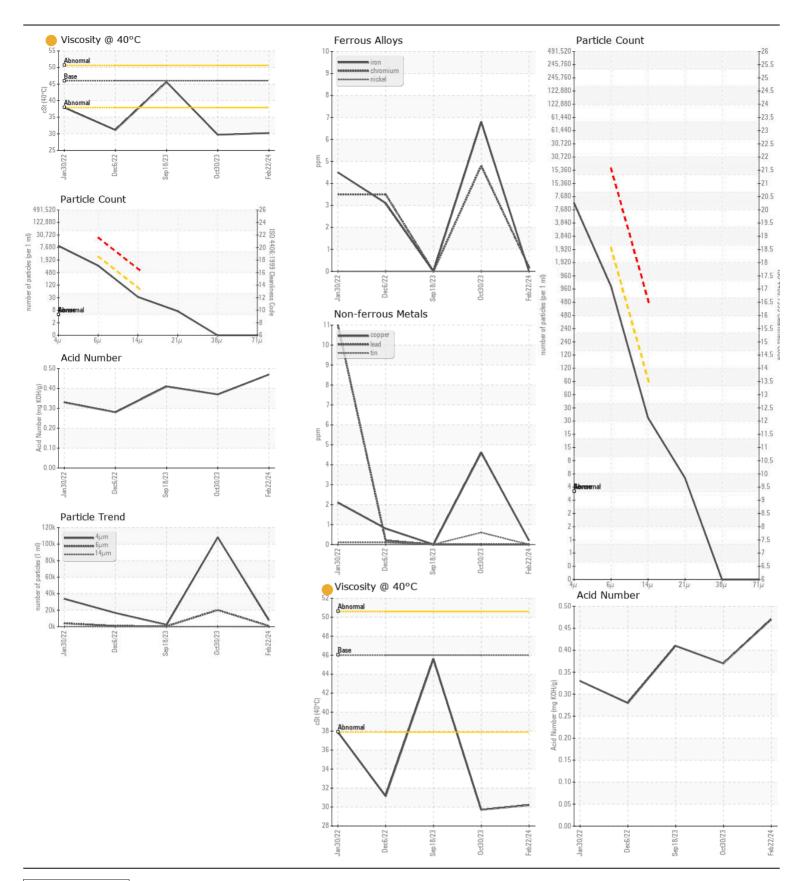
NORMAL NORMAL ATTENTION

Ascendum Machinery

VOLVO L120H RL69 (S/N L120HV632870)

Component Hydraulic System

VOLVO SUPER HYDRAULIC OI	L 46 (37 GA	L)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0001995		ASC0001329
	Sample Date Machine Age	hrs	Client Info		22 Feb 2024 12092	30 Oct 2023 11087	18 Sep 2023 10593
	Oil Age	hrs	Client Info		8915	8404	2683
	Filter Age	hrs	Client Info		0915	0	0
	Oil Changed	1115	Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	Not Change	Ü
	Sample Status		Olletti IIIIO		ATTENTION	ABNORMAL	0
WEAR	Iron	ppm	ASTM D5185m	>50	0	7	0
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	5	0
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	0	<1	3
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>150	<1	5	0
	Tin	ppm	ASTM D5185m	>20	0	<1	0
	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	>20	0	2	<1
	Potassium	ppm	ASTM D5185m	>20	0	0	0
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647		8024	108307	2196
	Particles >6µm		ASTM D7647	>2500	908	<u> </u>	491
	Particles >14μm		ASTM D7647	>80	29	<u> </u>	34
	Particles >21µm		ASTM D7647	>20	6	<u> </u>	8
	Particles >38µm		ASTM D7647	>4	0	1	1
	Particles >71μm		ASTM D7647		0	1	0
	Oil Cleanliness		ISO 4406 (c)	>/18/13	20/17/12	<u>4</u> 24/22/15	18/16/12
	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
<u></u>	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.	Sodium	ppm	ASTM D5185m		0	3	2
	Boron	ppm	ASTM D5185m		0	0	0
	Barium	ppm	ASTM D5185m		0	19	0
	Molybdenum	ppm	ASTM D5185m		0	<1	0
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		<1	0	4
	Calcium	ppm	ASTM D5185m		49	43	64
	Phosphorus	ppm	ASTM D5185m		269	354	357
	Zinc	ppm	ASTM D5185m		383	415	430
	Sulfur	ppm	ASTM D5185m	3719	693	1068	2568
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.47	0.37	0.41
	Visc @ 40°C	cSt	ASTM D445	46	30.2	29.7	45.6





Certificate L2367

Laboratory

Sample No.

: ASC0001995 Lab Number : 06101541 Unique Number : 10899771 Test Package : MOBCE

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

Diagnosed

: 28 Feb 2024 : 29 Feb 2024 - Jonathan Hester

: 27 Feb 2024

HILCO TRANSPORT 7700 KENMONT RD GREENSBORO, NC US 27409

Contact: MIKE LAUGHEAD mlaughead@hilcotransport.com

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. T: (336)273-9441 F: (336)273-9701 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: HILGREVC [WUSCAR] 06101541 (Generated: 02/29/2024 10:33:07) Rev: 1

Submitted By: CLAYTON SMITH