**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL SEVERE ABNORMAL** 

## **REGION OF WATERLOO [406065]**

## VOLVO L120H 633154

Hydraulic System

DECOMMENDATION	T	11014	NA-AI-	139741	(	118-4- 4	I line o
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where contaminants can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.	Sample Number Sample Date		Client Info		VCP448162	VCP380365	VCP39179
	Machine Age	hrs	Client Info		29 May 2024 5042	11 Jan 2024 4039	30 Aug 202
	Oil Age	hrs	Client Info		1000	4000	3000
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1113	Client Info		Not Changd	Changed	Not Chang
	Filter Changed		Client Info		Not Changd	Changed	Not Chang
	Sample Status		Chone hino		SEVERE	SEVERE	SEVERE
WEAR	Iron	ppm	ASTM D5185(m)	>50	9	19	15
VEAIL	Chromium	ppm	ASTM D5185(m)		5	10	7
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		0	<1	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)		0	0	0
	Aluminum	ppm	ASTM D5185(m)	>20	<1	1	<1
	Lead	ppm	ASTM D5185(m)	>20	0	1	1
	Copper	ppm	ASTM D5185(m)	>20	3	6	5
	Tin	ppm	ASTM D5185(m)	>20	0	<1	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>20	<1	4	4
	Potassium	ppm	ASTM D5185(m)	>20	<1	2	1
There is a light amount of silt (particulates < 14 microns in size) present in the oil. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D7593*		▲ 30.9	<b>▲</b> 61.8	
	Water		WC Method	>0.2	NEG	NEG	NEG
	Particles >4μm		ASTM D7647		4500	5262	2673
	Particles >6µm		ASTM D7647		<b>1398</b>	807	268
	Particles >14μm		ASTM D7647		105	56	17
	Particles >21µm		ASTM D7647		24	14	6
	Particles >38µm		ASTM D7647		2	2	1
	Particles >71µm		ASTM D7647		0	1	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/18/14	20/17/13	19/15/1
	Silt Debris	scalar	Visual*	NONE	NONE	NONE	NONE
		scalar	Visual* Visual*	NONE	NONE NONE	NONE NONE	NONE
	Sand/Dirt Appearance	scalar scalar	Visual*	NONE NORML	NORML	NORML	NORM
	Odor		Visual*	NORML	NORML	NORML	NORM
	Emulsified Water			>0.2	NEG	.2%	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185(m)		3	5	4
LOID CONDITION	Boron	ppm	ASTM D5185(m)	14	ა <1	<1	<1
Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185(m)		0	0	0
	Molybdenum	ppm	ASTM D5185(m)		0	0	0
	Manganese	ppm	ASTM D5185(m)	0.0	0	0	0
	Magnesium	ppm	ASTM D5185(m)	2.6	2	2	2
	Calcium	ppm	ASTM D5185(m)	49	- 80	57	54
	Phosphorus	ppm	ASTM D5185(m)	354	363	354	376
	Zinc	ppm	ASTM D5185(m)	419	443	450	456
	Sulfur	ppm	ASTM D5185(m)		1497	1316	1206
			. ,				

Visc @ 40°C

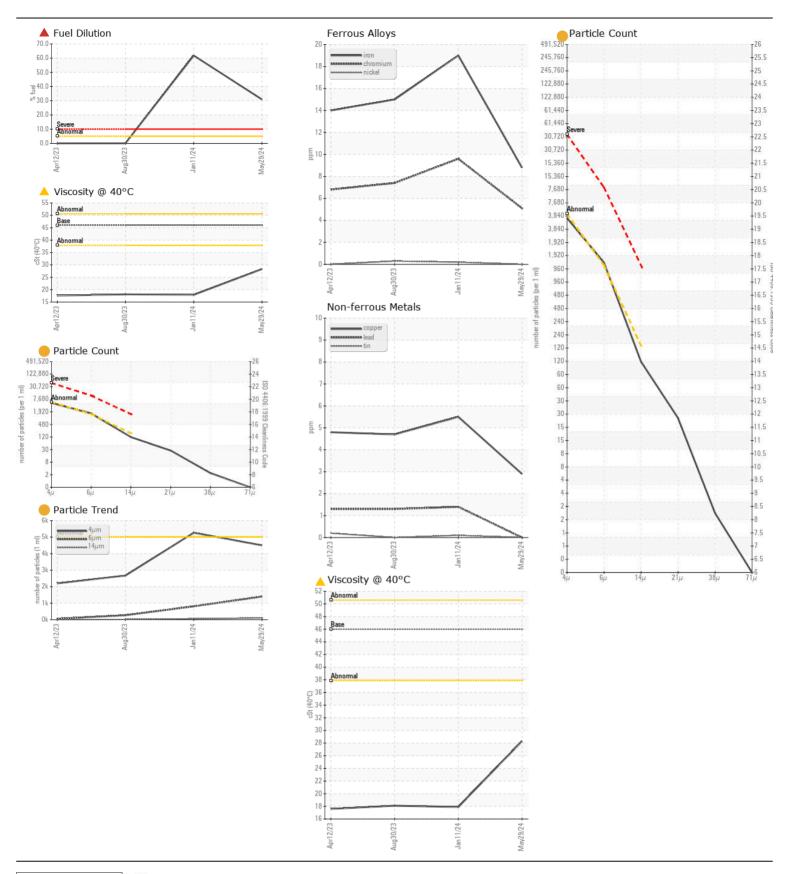
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ASTM D7279(m) 46

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ISO 17025:2017
Accredited
Laboratory

 Laboratory
 : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

 Sample No.
 : VCP448162
 Received
 : 05 Jun 2024

 Lab Number
 : 02639920
 Tested
 : 06 Jun 2024

 Unique Number
 : 5789082
 Diagnosed
 : 06 Jun 2024 - Kevin Marson

**Test Package**: MOB 1 (Additional Tests: PercentFuel, PrtCount)

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Strongco Equipment
5179 Fountain St N.
Breslau, ON
CA N0B 1M0
Contact: Eric Mailloux
emailloux@strongco.com
T: (519)744-3518
F: (519)744-3284