WEAR CONTAMINATION FLUID CONDITION

SEVERE SEVERE NORMAL

Historv2

History1



VOLVO L70H 623179

Front Axle

{not provided} (--- GAL)

Test

Nickel

UOM

Method

			ΑTI	

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: approximately 1 gallon in axle at time of service)

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Sample Number		Client Info		ASC0006022	VCP299623	VCP255541
Sample Date		Client Info		21 Dec 2023	04 Jan 2021	23 Aug 2019
Machine Age	hrs	Client Info		10435	5321	1998
Oil Age	hrs	Client Info		7112	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>500	15161	88	41
Chromium	nnm	ASTM D5185m	>20	120	2	1

Limit/Abn Current

WEAR

The iron, chrome and nickel levels are severe. Gear wear is indicated.

Titanium	ppm	ASTM D5185m		2	1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	4 4	3	2
Lead	ppm	ASTM D5185m	>50	2	2	<1
Copper	ppm	ASTM D5185m	>120	32	<1	<1
Tin	ppm	ASTM D5185m	>20	2	0	0
Vanadium	ppm	ASTM D5185m		4	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		43.77	NIGNIE	NONE	NONE	NIONIE

ASTM D5185m >10

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. There is a high concentration of water present in the oil.

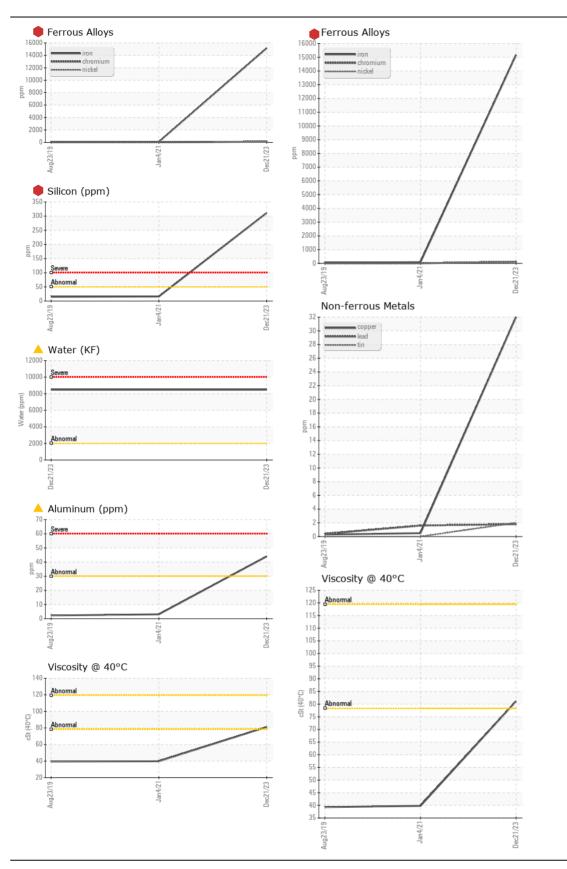
	Silicon	ppm	ASTM D5185m	>50	•	311	16	15
	Potassium	ppm	ASTM D5185m	>20		12	2	0
	Water	%	ASTM D6304	>0.2		0.848		
	ppm Water	ppm	ASTM D6304	>2000		8480		
	Silt	scalar	*Visual	NONE		NONE	NONE	NONE
	Debris	scalar	*Visual	NONE		NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE		NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML		NORML	NORML	NORML
	Odor	scalar	*Visual	NORML		NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2		0.2%	NEG	NEG
	Sodium	ppm	ASTM D5185m			 40	6	8

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

	Odor	scalar	*Visual	NORML	NORML	. NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	4 0.2%	NEG	NEG
	Sodium	ppm	ASTM D5185m		40	6	8
	Boron	ppm	ASTM D5185m		105	114	125
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		21	2	3
	Manganese	ppm	ASTM D5185m		122	4	4
	Magnesium	ppm	ASTM D5185m		90	18	12
	Calcium	ppm	ASTM D5185m		3417	3994	4425
	Phosphorus	ppm	ASTM D5185m		1226	1383	1423
	Zinc	ppm	ASTM D5185m		1410	1618	1767
	Sulfur	ppm	ASTM D5185m		3665	3277	3728
	Visc @ 40°C	cSt	ASTM D445		81.1	39.8	39.3
					Cubmitte	d D.,, DVAN 7	EDALLOC

Submitted By: RYAN ZEBALLOS







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: ASC0006022 : 06058464 : 10829846

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 11 Jan 2024 Diagnosed : 14 Jan 2024 Diagnostician : Don Baldridge

Test Package : CONST (Additional Tests: KF) 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: F:

ATLAS ORGANICS

DURHAM, NC

US 27704

2115 EAST CLUB BLVD

Contact: Service Manager