WEAR CONTAMINATION FLUID CONDITION

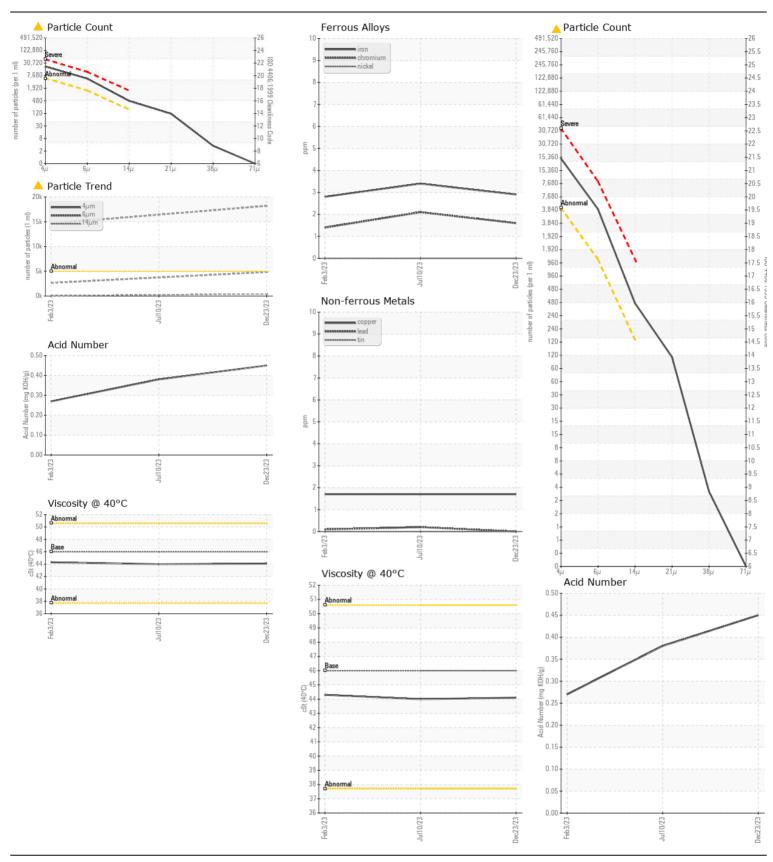
NORMAL ABNORMAL NORMAL



Area [A11723] **VOLVO L180H 5446**

Component Hydraulic System

VOLVO SUPER HYDRAULIC O	IL 40 (GA	<u></u> /					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.	Sample Number		Client Info		VCP439487	VCP416168	VCP399121
	Sample Date		Client Info		23 Dec 2023	10 Jul 2023	03 Feb 2023
	Machine Age	hrs	Client Info		6982	6010	5041
	Oil Age	hrs	Client Info		1500	2000	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Filter Changed		Client Info		Not Changd	Changed	Not Changd
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	3	3	3
	Chromium	ppm	ASTM D5185m	>20	2	2	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	0	0	0
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m	>20	2	2	2
	Tin	ppm	ASTM D5185m	>20	0	0	0
	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	1	2	1
ONTAININATION	Potassium	ppm	ASTM D5185m		<1	<1	0
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.	Water	le le · · ·	WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		<u> </u>		▲ 14629
	Particles >6µm		ASTM D7647		▲ 4834		<u>^</u> 2649
	Particles >14µm		ASTM D7647		413		82
	Particles >21µm		ASTM D7647	>40	101		15
	Particles >38μm		ASTM D7647		3		0
	Particles >71µm		ASTM D7647	>3	0		0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>		1 21/19/14
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	▲ MODER	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	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	3	2
TEGID CONDITION	Boron	ppm	ASTM D5185m	14	0	0	0
The AN level is acceptable for this fluid. The oil is still serviceable	Barium	ppm	ASTM D5185m		0	0	0
provided that the contaminant(s) can be reduced to acceptable levels.	Molybdenum	ppm	ASTM D5185m		0	<1	<1
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		4	9	8
	Calcium	ppm	ASTM D5185m		58	64	66
	Phosphorus	ppm	ASTM D5185m		446	435	419
	Zinc	ppm	ASTM D5185m		487	541	519
	Sulfur	ppm	ASTM D5185m		1225	1581	1234
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.45	0.38	0.27
	Acid Nulliber (AIN)	mg romg	7 10 1 111 2 0 0 1 0			0.00	0.27







Certificate L2367

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

: VCP439487 : 06055871 : 10821820 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 09 Jan 2024 Diagnosed : 10 Jan 2024

: Wes Davis Diagnostician

COVANTA METAL MARKETING LLC

500 MIDDLE DR FAIRLESS HILLS, PA US 19030 Contact: J.P.

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)

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