WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

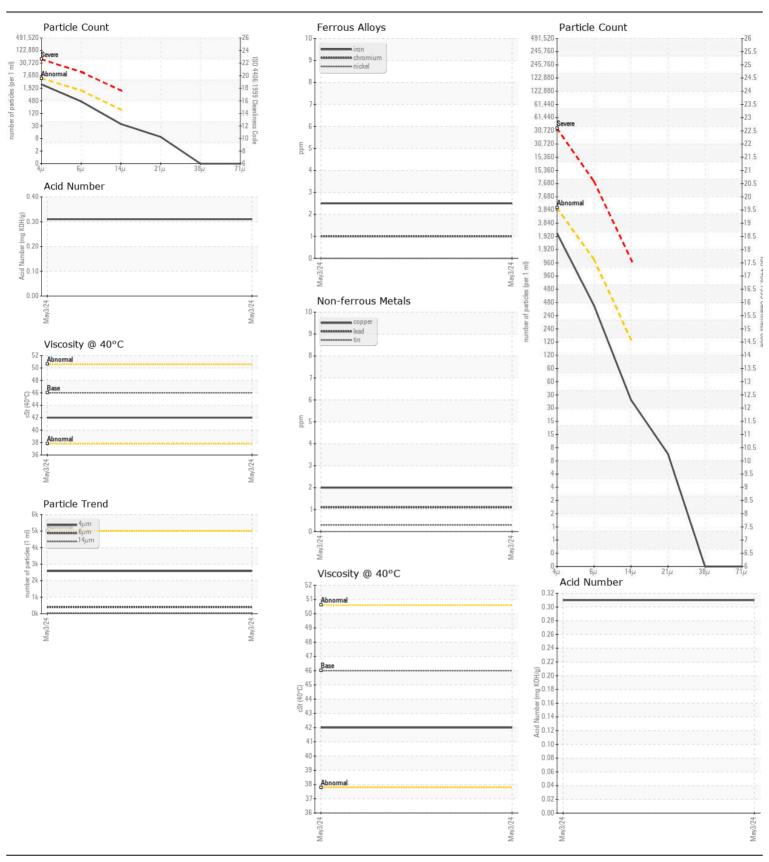


## VOLVO L220H 3377

Hydraulic System

**VOLVO SUPER HYDRAULIC OIL 46 (40 GAL)** 

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ML0001338		
	Sample Date		Client Info		03 May 2024		
	Machine Age	hrs	Client Info		4306		
	Oil Age	hrs	Client Info		4306		
	Filter Age	hrs	Client Info		4306		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR  All component wear rates are normal.	Iron	ppm	ASTM D5185m	>50	2		
	Chromium	ppm	ASTM D5185m	>20	1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>20	2		
	Lead	ppm	ASTM D5185m	>20	1		
	Copper	ppm	ASTM D5185m	>20	2		
	Tin	ppm	ASTM D5185m	>20	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	2		
CONTAMINATION	Potassium	ppm	ASTM D5185m		2		
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water	PPIII	WC Method		NEG		
	Particles >4µm		ASTM D7647		2578		
	Particles >6µm		ASTM D7647		390		
	Particles >14μm		ASTM D7647	>160	33		
	Particles >21μm		ASTM D7647	>40	8		
	Particles >38μm		ASTM D7647	>10	0		
	Particles >71μm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/12		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
	Boron	ppm	ASTM D5185m	14	0		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m	0.0	0		
	Magnesium	ppm	ASTM D5185m	2.6	1		
	Calcium	ppm	ASTM D5185m	49	96		
	Phosphorus	ppm	ASTM D5185m	354	352		
	Zinc	ppm	ASTM D5185m	419	439		
	Sulfur	ppm	ASTM D5185m	3719	1284		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.31		
	Visc @ 40°C	cSt	ASTM D445	46	42.0		





Certificate L2367

Laboratory Sample No.

: ML0001338 Lab Number : 06175398 Unique Number : 11021451 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 May 2024 **Tested** : 13 May 2024

Diagnosed

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

: 14 May 2024 - Don Baldridge

MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS

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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.

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