WEAR CONTAMINATION FLUID CONDITION

SEVERE

ABNORMAL

ATTENTION

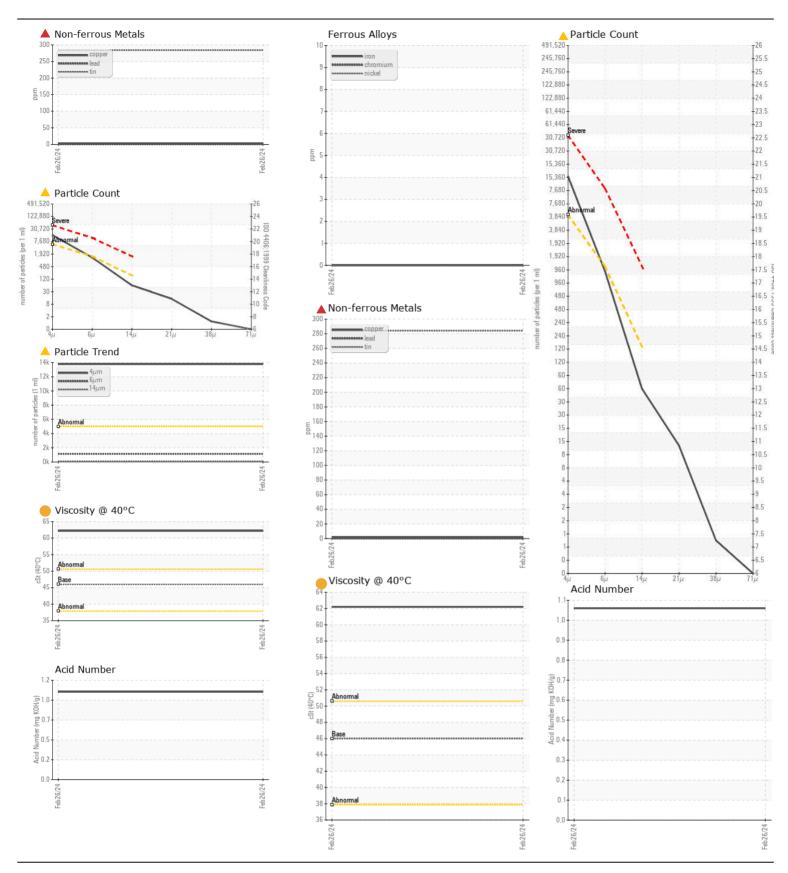
Area

NEW SOUTH LUMBER Machine Id VOLVO L220H L220HV3584



VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend an early resample to monitor this condition.	Sample Number		Client Info		ASC0007651		
	Sample Date		Client Info		26 Feb 2024		
	Machine Age	hrs	Client Info		470		
	Oil Age	hrs	Client Info		470		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m	>50	0		
WLAN	Chromium	ppm	ASTM D5185m		0		
The tin level is severe.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>10	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>20	0		
	Lead	ppm	ASTM D5185m	>20	<1		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m		<u>−</u> 284		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	2		
There is a high amount of all (newly dates 14 miles are in all a)	Potassium	ppm	ASTM D5185m	>20	0		
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method	>0.2	NEG		
	Particles >4μm		ASTM D7647	>5000	<u> </u>		
	Particles >6μm		ASTM D7647	>1300	1148		
	Particles >14μm		ASTM D7647	>160	53		
	Particles >21µm		ASTM D7647		12		
	Particles >38μm		ASTM D7647		1		
	Particles >71μm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 21/17/13		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor Emulsified Water	scalar	*Visual	NORML	NORML		
		Scalai	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1		
TEGIS CONSTITION	Boron	ppm	ASTM D5185m	14	0		
Viscosity of sample indicates oil is within ISO 68 range, advise investigate. The AN level is acceptable for this fluid.	Barium	ppm		0.0	0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		<1		
	Calcium	ppm	ASTM D5185m	49	7		
	Phosphorus	ppm	ASTM D5185m		188		
	Zinc	ppm		419	81		
	Sulfur	ppm	ASTM D5185m	3719	689		
	Sulfur Acid Number (AN)	ppm mg KOH/g	ASTM D5185m ASTM D8045	3719	689 1.06		





Certificate L2367

Laboratory Sample No. Lab Number : 06105137

Test Package : CONST

: ASC0007651 Unique Number: 10903367

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

Received : 29 Feb 2024 : 06 Mar 2024 **Tested** : 06 Mar 2024 - Jonathan Hester Diagnosed

114 - ASCENDUM MACHINERY INC - CONCORD 1025 INTERNATIONAL DR NW

CONCORD, NC US 28027

Contact: JEFF WILBANKS

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* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)599-8179 F: (704)596-1362 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)