

OIL ANALYSIS REPORT

Sample Rating Trend





VOLVO L180H 5617 Component Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (35 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

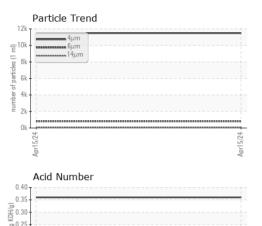
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0001222		
Sample Date		Client Info		15 Apr 2024		
Machine Age	hrs	Client Info		2305		
Oil Age	hrs	Client Info		500		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	4		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>10	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	>150	3		
Tin	ppm	ASTM D5185m	>20	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	14	0		
Barium	ppm	ASTM D5185m	0.0	0		
Molybdenum	ppm	ASTM D5185m	0.0	<1		
Manganese	ppm	ASTM D5185m	0.0	0		
Magnesium	ppm	ASTM D5185m	2.6	<1		
Calcium	ppm	ASTM D5185m	49	48		
Phosphorus	ppm	ASTM D5185m	354	327		
Zinc	ppm	ASTM D5185m	419	413		
Sulfur	ppm	ASTM D5185m	3719	1380		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	2		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		11487		
Particles >6µm		ASTM D7647	>2500	819		
Particles >14µm		ASTM D7647	>80	40		
Particles >21µm		ASTM D7647	>20	6		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/18/13	21/17/12		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.36		
0.01.18) Bov. 1				Sub	mitted By: DEL	

Report Id: VOLVO0150 [WUSCAR] 06155183 (Generated: 04/24/2024 10:01:18) Rev: 1

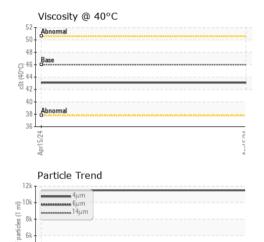
Submitted By: DELANO GREGORY Page 1 of 2

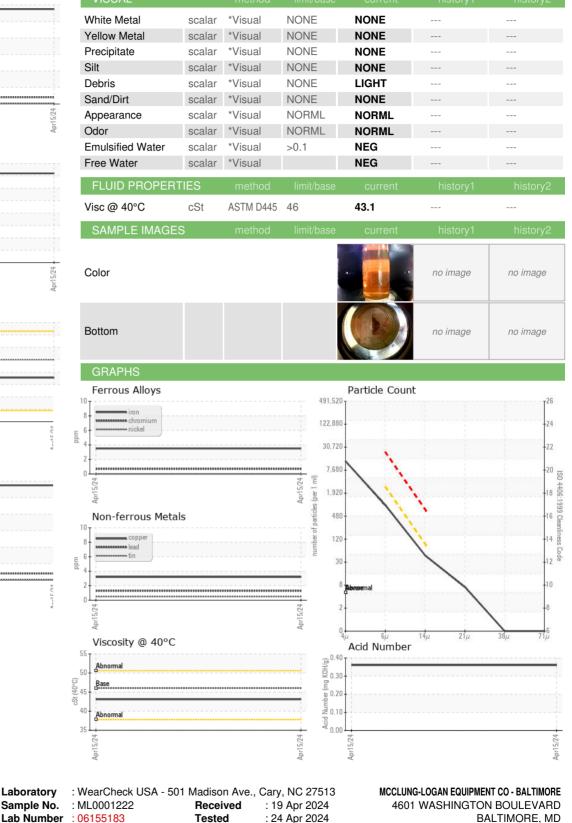


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: 24 Apr 2024 Diagnosed : 24 Apr 2024 - Jonathan Hester

BALTIMORE, MD US 21227 Contact: DELANO GREGORY dgregory@mcclung-logan.com T:



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> Unique Number : 10990606 Test Package : CONST Certificate 12367 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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Laboratory

Sample No.

F: (410)242-7835 Submitted By: DELANO GREGORY

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