

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

VOLVO A60H 350146

Hydraulic System

Fluid

VOLVO SUPER HYDRAULIC OIL 46 (55 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

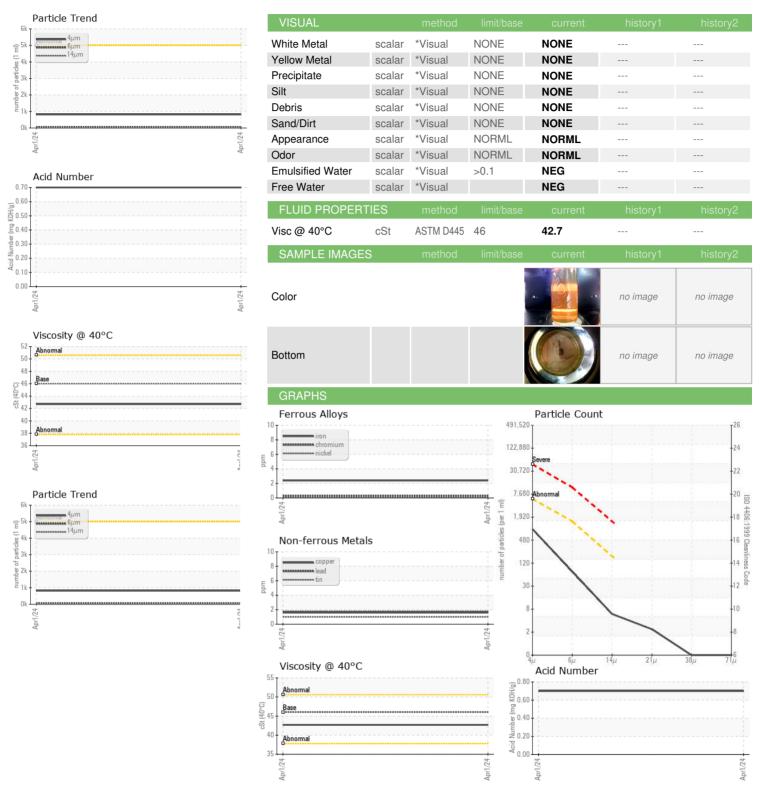
L)				Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0000050		
Sample Date		Client Info		01 Apr 2024		
Machine Age	hrs	Client Info		3890		
Oil Age	hrs	Client Info		3890		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	1	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	2		
Lead	ppm	ASTM D5185m	>10	2		
Copper	ppm	ASTM D5185m	>75	2		
Tin	ppm	ASTM D5185m	>10	1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	14	63		
Barium	ppm	ASTM D5185m	0.0	0		
Molybdenum	ppm	ASTM D5185m	0.0	1		
Manganese	ppm	ASTM D5185m	0.0	0		
	PP			U		
Magnesium	ppm	ASTM D5185m	2.6	26		
•		ASTM D5185m ASTM D5185m	2.6 49			
Magnesium	ppm			26		
Magnesium Calcium	ppm	ASTM D5185m	49	26 2535		
Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m	49 354	26 2535 887		
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	49 354 419	26 2535 887 1119		
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	49 354 419 3719	26 2535 887 1119 3593		
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	49 354 419 3719 limit/base	26 2535 887 1119 3593 current	 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	49 354 419 3719 limit/base >20	26 2535 887 1119 3593 current	 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	49 354 419 3719 limit/base >20	26 2535 887 1119 3593 current 10 2	 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	49 354 419 3719 limit/base >20 >20	26 2535 887 1119 3593 current 10 2 <1	 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	49 354 419 3719 limit/base >20 >20 limit/base	26 2535 887 1119 3593 current 10 2 <1	 history1 history1	 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	49 354 419 3719 limit/base >20 >20 limit/base >5000	26 2535 887 1119 3593 current 10 2 <1 current	history1 history1	history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647	49 354 419 3719 limit/base >20 >20 limit/base >5000 >1300	26 2535 887 1119 3593 current 10 2 <1 current 818 64	history1 history1	history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	49 354 419 3719 limit/base >20 >20 limit/base >5000 >1300 >160	26 2535 887 1119 3593 current 10 2 <1 current 818 64 5	history1 history1	history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	49 354 419 3719 limit/base >20 >20 limit/base >5000 >1300 >160 >40	26 2535 887 1119 3593 current 10 2 <1 current 818 64 5	history1 history1	history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	49 354 419 3719 limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10	26 2535 887 1119 3593 current 10 2 <1 current 818 64 5 2 0	history1 history1	history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647	49 354 419 3719 limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10 >3	26 2535 887 1119 3593 current 10 2 <1 current 818 64 5 2 0 0	history1 history1	history2 history2

Submitted By: Emylio Pineda

0.70



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number : 06136883 Unique Number : 10956348

: ML0000050 Test Package : CONST

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Apr 2024 **Tested** : 03 Apr 2024

Diagnosed : 04 Apr 2024 - Don Baldridge

BALTIMORE, MD US 21227 Contact: Emylio Pineda

MCCLUNG-LOGAN EQUIPMENT CO - BALTIMORE

4601 WASHINGTON BOULEVARD

epineda@mcclung-logan.com

 st - 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: (410)242-7835