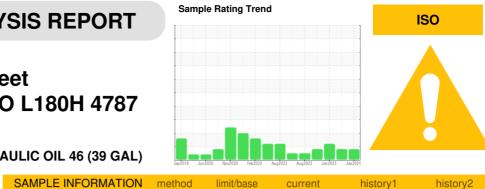


OIL ANALYSIS REPORT

limit/base

Area AMR-12th Street 438153 VOLVO L180H 4787 Component Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (39 GAL)



DJJ0016948

02 Jan 2024 05 Jul 2023 13 Jan 2023

DJJ0012281

current DJJ0016937

DIAGNOSIS	SAMPLE INFORM	ATION	method
A Recommendation	Sample Number		Client Info
The filter change at the time of sampling has been	Sample Date		Client Info
noted. We recommend an early resample to	Machine Age	hrs	Client Info
monitor this condition.	Oil Age	hrs	Client Info
Wear	Oil Changed		Client Info
All component wear rates are normal.	Sample Status		
Contamination There is a moderate amount of silt (particulates <	CONTAMINATIO	V	method
14 microns in size) present in the oil.	Water		WC Method
Fluid Condition	WEAR METALS		method
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s)	Iron	ppm	ASTM D5185m
can be reduced to acceptable levels.	Chromium	ppm	ASTM D5185m
	Nickel	ppm	ASTM D5185m
	Titanium	ppm	ASTM D5185m
	Silver	ppm	ASTM D5185m
	Aluminum	ppm	ASTM D5185m
	Lead	ppm	ASTM D5185m
	Copper	ppm	ASTM D5185m
	Tin	ppm	ASTM D5185m
	Vanadium	ppm	ASTM D5185m
	Cadmium	ppm	ASTM D5185m
	ADDITIVES		method
	Boron	ppm	ASTM D5185m
	Barium	ppm	ASTM D5185m
	Molybdenum	ppm	ASTM D5185m
	Manganese	ppm	ASTM D5185m
	Magnesium	ppm	ASTM D5185m
	Calcium	ppm	ASTM D5185m
	Phosphorus	ppm	ASTM D5185m

Sample Date		Client Into		02 Jan 2024	05 JUI 2023	13 Jan 2023
Machine Age	hrs	Client Info		11028	10517	9993
Oil Age	hrs	Client Info		0	0	2000
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	3	3
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	<1
Lead	ppm	ASTM D5185m	>20	_ <1	<1	<1
Copper	ppm	ASTM D5185m		1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	14	0	0	0
Barium	ppm	ASTM D5185m	0.0	0	0	1
Molybdenum	ppm	ASTM D5185m	0.0	<1	<1	<1
Manganese	ppm	ASTM D5185m	0.0	0	<1	0
Magnesium	ppm	ASTM D5185m	2.6	2	0	2
Calcium	ppm	ASTM D5185m	49	80	82	141
Phosphorus	ppm	ASTM D5185m	354	365	356	357
Zinc	ppm	ASTM D5185m	419	429	442	448
Sulfur	ppm	ASTM D5185m			774	
Sullui			·2/10	882	1058	1057
			3719	882	1058	1057
CONTAMINANTS		method	3719 limit/base	current	1058 history1	history2
		method ASTM D5185m		current 2	history1 1	<mark>history2</mark> 2
Silicon	;	method	limit/base	current	history1	history2
Silicon Sodium	ppm	method ASTM D5185m	limit/base >20	current 2	history1 1	history2 2
Silicon Sodium	ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >20	current 2 0	history1 1 2	history2 2 0
Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >20 >20	current 2 0 1	history1 1 2 1	history2 2 0 1
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >20 >20 limit/base	current 2 0 1 current	history1 1 2 1 history1	history2 2 0 1 history2
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647	limit/base >20 >20 limit/base >5000	current 2 0 1 current ▲ 19710	history1 1 2 1 history1 ▲ 7198	history2 2 0 1 history2 ▲ 24290
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mMethodASTM D7647ASTM D7647	limit/base >20 >20 limit/base >5000 >1300 >160	Current 2 0 1 current ▲ 19710 374	history1 1 2 1 history1 ▲ 7198 1289	history2 2 0 1 history2 ▲ 24290 ▲ 4621
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm	Method ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647	limit/base >20 >20 limit/base >5000 >1300 >160	Current 2 0 1 Current 19710 374 7	history1 1 2 1 history1 ▲ 7198 1289 77	history2 2 0 1 history2 ▲ 24290 ▲ 24290 ▲ 4621 153
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647	limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10	Current 2 0 1 Current ▲ 19710 374 7 2	history1 1 2 1 1 history1 ▲ 7198 1289 77 23	history2 2 0 1 history2 ▲ 24290 ▲ 4621 153 33
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mMethodASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647	limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10	Current 2 0 1 Current ▲ 19710 374 7 2 0	history1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	history2 2 0 1 history2 ▲ 24290 ▲ 4621 153 33 2
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm IESS	methodASTM D5185mASTM D5185mASTM D5185mMethodASTM D7647ASTM D7647	limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10 >3	Current 2 0 1 Current ▲ 19710 374 7 2 0 0 0	history1 1 2 1 history1 Nistory1 1289 777 23 0 0 0	history2 2 0 1 history2 ▲ 24290 ▲ 4621 153 33 2 0
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	ppm ppm ppm IESS	methodASTM D5185mASTM D5185mASTM D5185mMethodASTM D7647ASTM D7647	limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10 >3 >3 >19/17/14	2 0 1 current ▲ 19710 374 7 2 0 0 0 0 0 0 0 0 21/16/10	history1 1 2 1 * * * * * * * * <td>history2 2 0 1 × 24290 ▲ 24290 ▲ 4621 153 33 2 0 ↓ 22/19/14</td>	history2 2 0 1 × 24290 ▲ 24290 ▲ 4621 153 33 2 0 ↓ 22/19/14



Acid Number

0.60

0.00

52 50

48

(0.046) 44 42 42 Bas

40

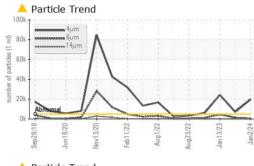
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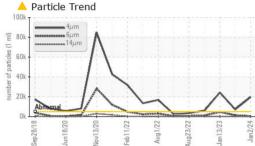
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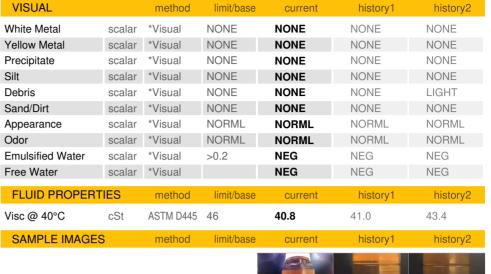
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(B/HOX Ê0.3 Ê 0.24 Pio 0.12

OIL ANALYSIS REPORT



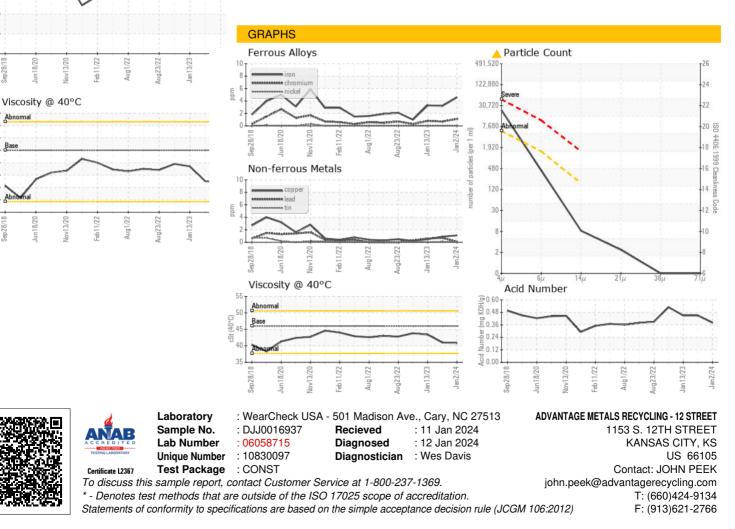




Color



Bottom



Contact/Location: JOHN PEEK - ADVKANLH