

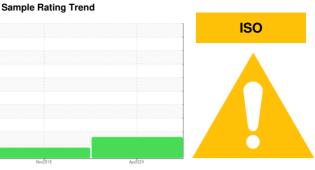
OIL ANALYSIS REPORT



TMR-Opa Locka [SPM689439] 4419 VOLVO L180H 31479

Component **Hydraulic System**

VOLVO SUPER HYDRAULIC OIL 46 (--- QTS)



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

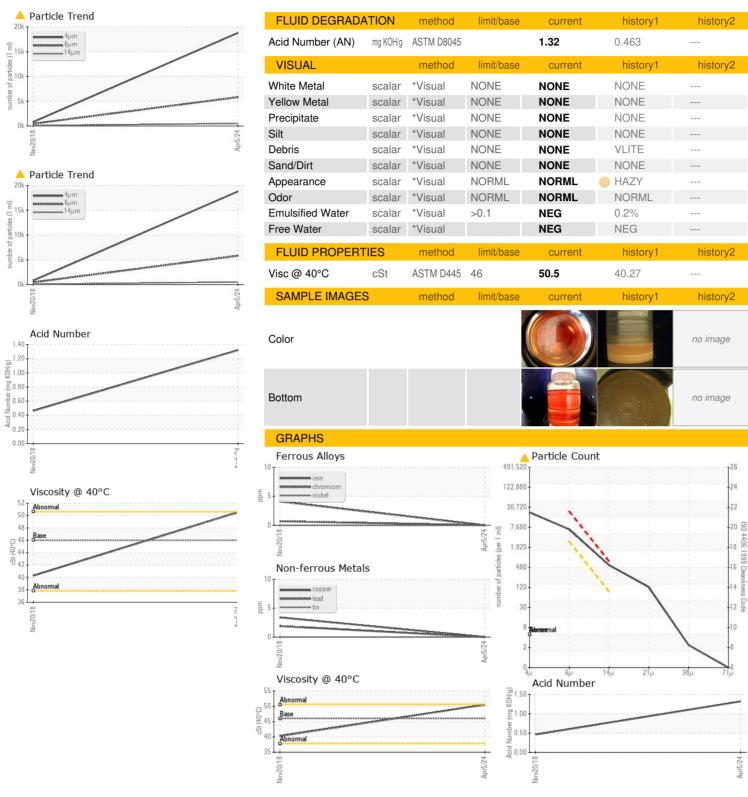
Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION method limit/base current history1	history2
Sample Number Client Info DJJ022574 DJJ022684	
Sample Date Client Info 05 Apr 2024 20 Nov 2018	
Machine Age hrs Client Info 12103 0	
Dil Age hrs Client Info 0	
Oil Changed Client Info Changed N/A	
Sample Status ABNORMAL ATTENTION	
CONTAMINATION method limit/base current history1	history2
Water WC Method >0.1 NEG NEG	
WEAR METALS method limit/base current history1	history2
ron ppm ASTM D5185m >50 0 4	
Vanadium ppm ASTM D5185m 0 0	
Vanadium ppm ASTM D5185m 0 0	
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1	
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 14 4 <1	history2
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 14 4 <1	history2
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 14 4 <1	history2
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 14 4 <1	history2
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 14 4 <1	history2
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 14 4 <1	history2
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 1.4 4 <1	history2
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 1.4 4 <1	history2
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 1.4 4 <1	history2
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 14 4 <1 Barium ppm ASTM D5185m 0.0 0 0 Molybdenum ppm ASTM D5185m 0.0 2 <1 Manganese ppm ASTM D5185m 0.0 <1 <1 Magnesium ppm ASTM D5185m 2.6 18 2 Calcium ppm ASTM D5185m 49 2291 50 Phosphorus ppm ASTM D5185m 354 885 298 Zinc ppm ASTM D5185m 3719 3388 6886 CONTAMINANTS method limit/base current history1	history2
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 1.4 4 <1 Barium ppm ASTM D5185m 0.0 0 0 Molybdenum ppm ASTM D5185m 0.0 2 <1 Manganese ppm ASTM D5185m 0.0 <1 <1 Magnesium ppm ASTM D5185m 2.6 18 2 Calcium ppm ASTM D5185m 49 2291 50 Phosphorus ppm ASTM D5185m 354 885 298 Zinc ppm ASTM D5185m 3719 3388 6886 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185m >20 4 <1	history2 history2 history2
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 14 4 <1 Barium ppm ASTM D5185m 0.0 0 0 Molybdenum ppm ASTM D5185m 0.0 2 <1 Manganese ppm ASTM D5185m 0.0 <1 <1 Magnesium ppm ASTM D5185m 2.6 18 2 Calcium ppm ASTM D5185m 49 2291 50 Phosphorus ppm ASTM D5185m 354 885 298 Zinc ppm ASTM D5185m 419 1053 391 Gulfur ppm ASTM D5185m 3719 3388 6886 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5	history2 history2 history2 history2
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 14 4 <1 Barium ppm ASTM D5185m 0.0 0 0 Molybdenum ppm ASTM D5185m 0.0 2 <1 Manganese ppm ASTM D5185m 0.0 <1 <1 Magnesium ppm ASTM D5185m 2.6 18 2 Calcium ppm ASTM D5185m 49 2291 50 Phosphorus ppm ASTM D5185m 354 885 298 Zinc ppm ASTM D5185m 419 1053 391 Gulfur ppm ASTM D5185m 3719 3388 6886 CONTAMINANTS method limit/base current history1 Goldium ppm ASTM D5	history2 history2 history2
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Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 14 4 <1	history2 history2 history2 history2 history2
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Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 1.4 4 <1 Barium ppm ASTM D5185m 0.0 0 0 Molybdenum ppm ASTM D5185m 0.0 2 <1 Manganese ppm ASTM D5185m 0.0 <1 <1 Magnesium ppm ASTM D5185m 2.6 18 2 Calcium ppm ASTM D5185m 49 2291 50 Phosphorus ppm ASTM D5185m 354 885 298 Zinc ppm ASTM D5185m 419 1053 391 Sulfur ppm ASTM D5185m 3719 3388 6886 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM	history2 history2 history2 history2 history2
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 1.4 4 <1 Barium ppm ASTM D5185m 0.0 0 0 Molybdenum ppm ASTM D5185m 0.0 2 <1 Manganese ppm ASTM D5185m 0.0 <1 <1 Magnesium ppm ASTM D5185m 2.6 18 2 Calcium ppm ASTM D5185m 49 2291 50 Phosphorus ppm ASTM D5185m 354 885 298 Zinc ppm ASTM D5185m 3719 3388 6886 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185m >20 4 <1 Potassium ppm ASTM	history2 history2 history2 history2
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 1.4 4 <1 Barium ppm ASTM D5185m 0.0 0 0 Molybdenum ppm ASTM D5185m 0.0 2 <1 Manganese ppm ASTM D5185m 0.0 <1 <1 Magnesium ppm ASTM D5185m 2.6 18 2 Calcium ppm ASTM D5185m 49 2291 50 Phosphorus ppm ASTM D5185m 354 885 298 Zinc ppm ASTM D5185m 419 1053 391 Sulfur ppm ASTM D5185m 3719 3388 6886 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM	history2 history2 history2 history2 history2



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No. : DJJ022574 Lab Number : 06144163 Unique Number : 10968971 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 11 Apr 2024 - Wes Davis

: 10 Apr 2024

: 11 Apr 2024

3440 NW 135TH ST OPA LOCKA, FL

TRADEMARK METALS RECYCLING - EVERGLADES

US 33054 Contact: RYAN BOWDEN

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)

F: (305)681-4914 Contact/Location: RYAN BOWDEN - TRAOPA

Report Id: TRAOPA [WUSCAR] 06144163 (Generated: 04/11/2024 15:37:58) Rev: 1