

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **R10** Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (25 GAL)

## DIAGNOSIS

#### A Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

#### Wear

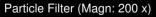
All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

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





				Jan2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH0003830		
Sample Date		Client Info		11 Jan 2024		
Machine Age	yrs	Client Info		2		
Oil Age	yrs	Client Info		2		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	7		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	10		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	25	0		
Calcium						
Galolum	ppm	ASTM D5185m	200	125		
	ppm ppm	ASTM D5185m ASTM D5185m	200 300	125 243		
Phosphorus Zinc				-		
Phosphorus	ppm	ASTM D5185m	300	243		
Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	300 370	243 273		
Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	300 370 2500 limit/base	243 273 585		
Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	300 370 2500 limit/base	243 273 585 current	  history1	   history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	300 370 2500 limit/base	243 273 585 current <1	  history1	   history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	300 370 2500 limit/base >15	243 273 585 current <1 <1	  history1 	  history2 
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m ASTM D5185m	300 370 2500 limit/base >15 >20	243 273 585 current <1 <1 <1 0	  history1  	   history2  
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	300 370 2500 limit/base >15 >20 limit/base >10000	243 273 585 current <1 <1 0 current	  history1   history1	  history2   history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	300 370 2500 limit/base >15 >20 limit/base >10000	243 273 585 current <1 <1 <1 0 current ▲ 45274	  history1   history1 	  history2   history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647	300 370 2500 limit/base >15 >20 limit/base >20 >10000 >2500 >320	243 273 585 <u>current</u> <1 <1 <1 0 <u>current</u> ▲ 45274 ▲ 4653	 history1   history1  history1 	  history2   history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647	300 370 2500 limit/base >15 >20 limit/base >20 >10000 >2500 >320	243 273 585 current <1 <1 <1 0 current 45274 ▲ 4523 83	  history1   history1  	  history2   history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	300 370 2500 limit/base >15 >20 limit/base >10000 >2500 >320 >80 >20	243 273 585 current <1 <1 <1 0 current 45274 ▲ 4523 83 16	  history1   history1  history1 	history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >14μm Particles >21μm Particles >38μm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	300 370 2500 limit/base >15 >20 limit/base >10000 >2500 >320 >80 >20	243 273 585 current <1 <1 <1 0 current 45274 ▲ 4523 83 16 1	 history1    history1    	  history2   history2  history2
Phosphorus Zinc Sulfur Sulfur CONTAMINANTS Silicon Sodium Potassium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	300 370 2500 2500 >15 >20 <u>limit/base</u> >20 >10000 >2500 >320 >320 >80 >20 >20	243 273 585 current <1 <1 <1 0 current 4 45274 ▲ 45274 ▲ 4653 83 16 1 1 0	 history1    history1  history1   	history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	300 370 2500 limit/base >15 >20 limit/base >20 >320 >320 >320 >80 >20 >4 >20/18/15	243 273 585 current <1 <1 <1 0 current 45274 ▲ 4553 83 16 1 1 0 23/19/14	 history1    history1        -	  history2    history2        -

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Contact/Location: CHRIS STROH - GRETRA



# **OIL ANALYSIS REPORT**

scalar

method

\*Visual

limit/base

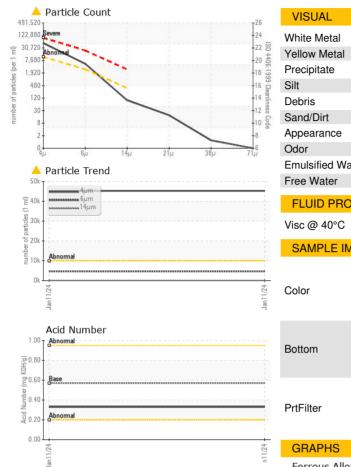
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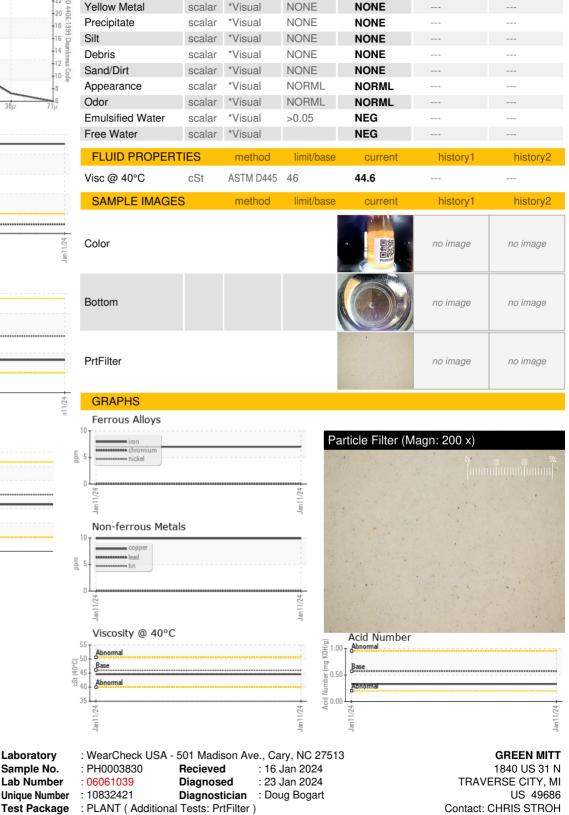
current

NONE

history1

history2







Viscosity @ 40°C

52

50 48

() 46 Bas

75 44 42

38

Abn 40

Jan11/24

Certificate L2367 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)

T: F:

Laboratory

Sample No.

Lab Number

Unique Number