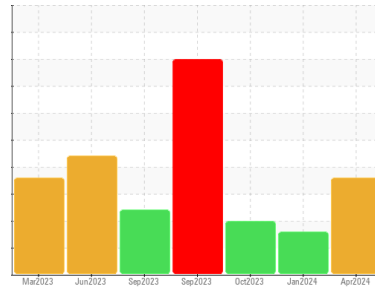


# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**PREPRESS**  
Component  
**Hydraulic System**  
Fluid  
**CHEVRON RANDO HD 46 (--- LTR)**

**DIAGNOSIS**

**Recommendation**

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

**Wear**

All component wear rates are normal.

**Contamination**

There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal.

**Fluid Condition**

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

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>Y2K0001707</b>	Y2K0001671	Y2K0001437
Sample Date	Client Info		<b>04 Apr 2024</b>	16 Jan 2024	30 Oct 2023
Machine Age	mths	Client Info	<b>0</b>	0	0
Oil Age	mths	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	Filtered
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>0</b>	<1	<1
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	1	0
Lead	ppm	ASTM D5185m >10	<b>0</b>	2	0
Copper	ppm	ASTM D5185m >75	<b>0</b>	2	6
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	<1	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	<b>6</b>	3	16
Calcium	ppm	ASTM D5185m	<b>56</b>	50	17
Phosphorus	ppm	ASTM D5185m	<b>353</b>	369	264
Zinc	ppm	ASTM D5185m	<b>442</b>	416	301
Sulfur	ppm	ASTM D5185m	<b>934</b>	835	620

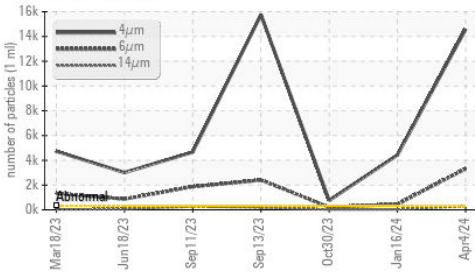
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>▲ 32</b>	7	0
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185m >20	<b>1</b>	<1	0
Water	%	ASTM D6304 >0.1	<b>0.001</b>	0.097	0.011
ppm Water	ppm	ASTM D6304 >1000	<b>3</b>	970	116.2

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>320	<b>▲ 14583</b>	4425	▲ 753
Particles >6µm	ASTM D7647	>80	<b>▲ 3326</b>	▲ 449	▲ 211
Particles >14µm	ASTM D7647	>20	<b>▲ 290</b>	▲ 30	● 23
Particles >21µm	ASTM D7647	>4	<b>▲ 83</b>	▲ 13	● 7
Particles >38µm	ASTM D7647	>3	<b>2</b>	2	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	1	0
Oil Cleanliness	ISO 4406 (c)	>15/13/11	<b>▲ 21/19/15</b>	▲ 19/16/12	▲ 17/15/12

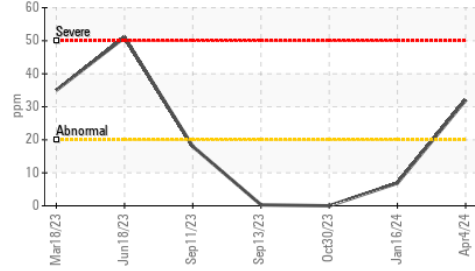
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.39</b>	0.36	0.38

# OIL ANALYSIS REPORT

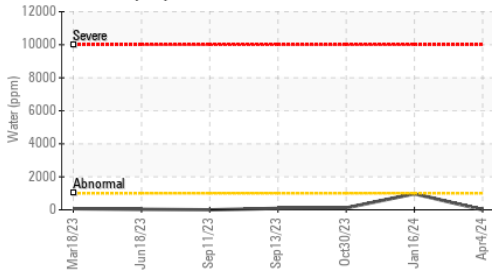
### ▲ Particle Trend



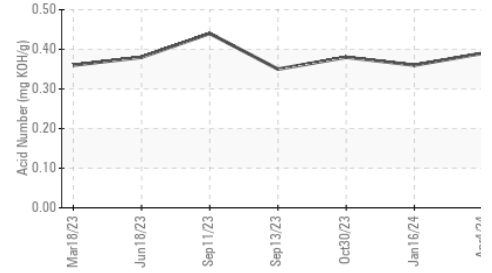
### ▲ Silicon (ppm)



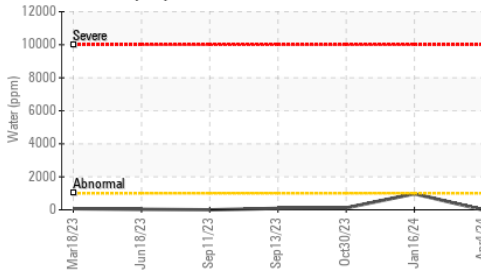
### Water (KF)



### Acid Number



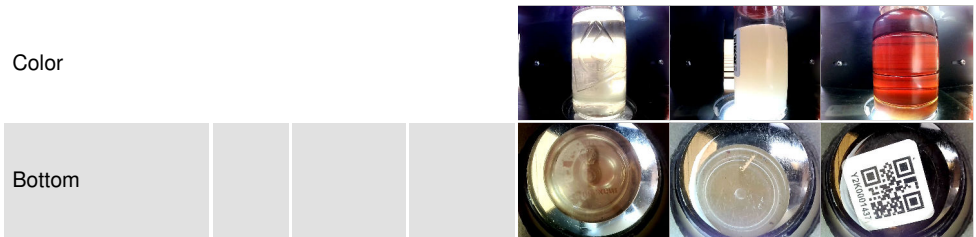
### Water (KF)



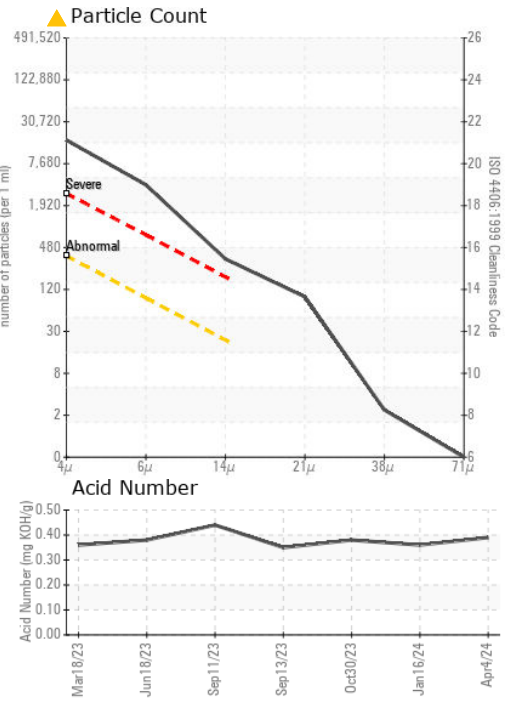
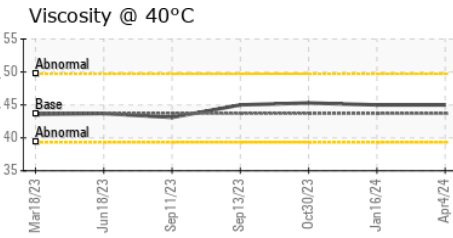
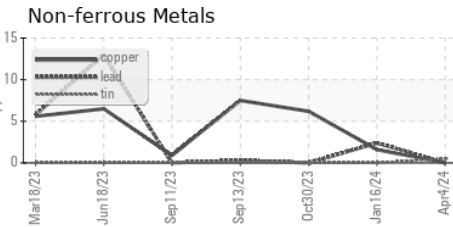
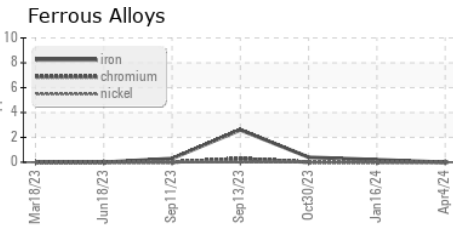
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	43.7	45.0	45.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : Y2K0001707  
**Lab Number** : 06140636  
**Unique Number** : 10965444  
**Test Package** : MOB 2 ( Additional Tests: KF )

**Received** : 05 Apr 2024  
**Tested** : 08 Apr 2024  
**Diagnosed** : 09 Apr 2024 - Don Baldrige

**MASONITE**  
 1401 E 4TH ST  
 MARSHFIELD, WI  
 US 54449  
 Contact: MIKE MURRAY  
 mmurray@masonite.com

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)