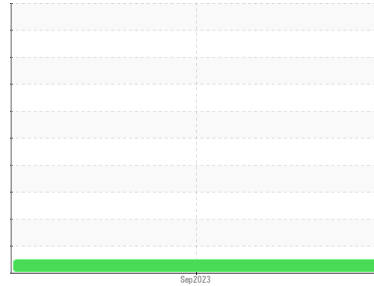




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**100-02**

Component  
**Hydraulic System**

Fluid  
**CHEVRON RANDO HD 46 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### 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>PH0001069</b>	---	---
Sample Date	Client Info	<b>18 Sep 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.05	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	<b>0</b>	---	---
Chromium	ppm ASTM D5185m >20	<b>0</b>	---	---
Nickel	ppm ASTM D5185m >20	<b>0</b>	---	---
Titanium	ppm ASTM D5185m	<b>0</b>	---	---
Silver	ppm ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m >20	<b>0</b>	---	---
Lead	ppm ASTM D5185m >20	<b>0</b>	---	---
Copper	ppm ASTM D5185m >20	<b>3</b>	---	---
Tin	ppm ASTM D5185m >20	<b>0</b>	---	---
Vanadium	ppm ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>0</b>	---	---
Barium	ppm ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Manganese	ppm ASTM D5185m	<b>0</b>	---	---
Magnesium	ppm ASTM D5185m	<b>3</b>	---	---
Calcium	ppm ASTM D5185m	<b>64</b>	---	---
Phosphorus	ppm ASTM D5185m	<b>316</b>	---	---
Zinc	ppm ASTM D5185m	<b>391</b>	---	---
Sulfur	ppm ASTM D5185m	<b>735</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	<b>4</b>	---	---
Sodium	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Potassium	ppm ASTM D5185m >20	<b>0</b>	---	---

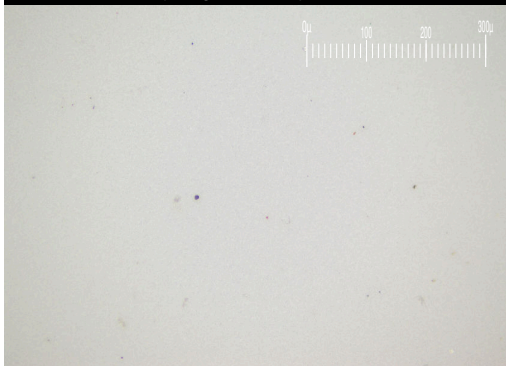
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>2402</b>	---	---
Particles >6µm	ASTM D7647 >2500	<b>696</b>	---	---
Particles >14µm	ASTM D7647 >320	<b>83</b>	---	---
Particles >21µm	ASTM D7647 >80	<b>26</b>	---	---
Particles >38µm	ASTM D7647 >20	<b>1</b>	---	---
Particles >71µm	ASTM D7647 >4	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/15	<b>18/17/14</b>	---	---

## FLUID DEGRADATION

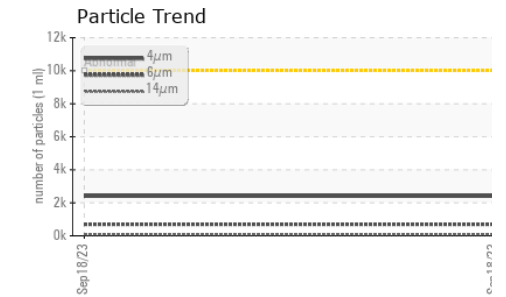
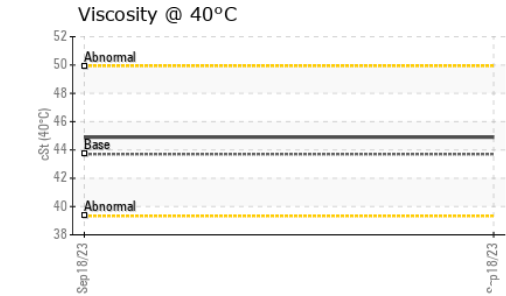
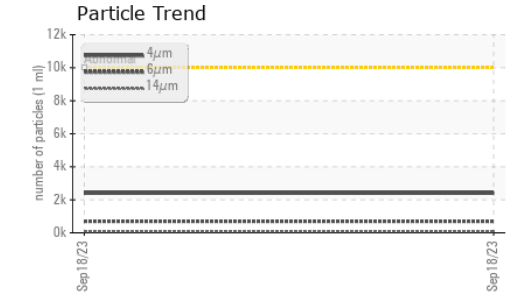
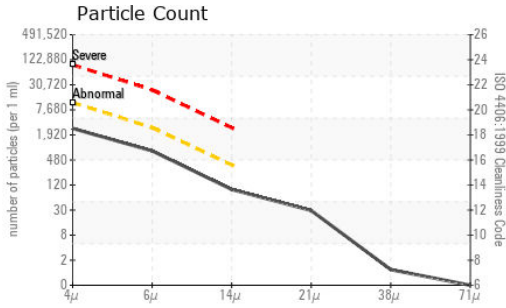
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	<b>0.33</b>	---	---

Particle Filter (Magn: 200 x)





# OIL ANALYSIS REPORT



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PH0001069      **Received** : 06 Nov 2023  
**Lab Number** : 05999033      **Tested** : 08 Nov 2023  
**Unique Number** : 10727393      **Diagnosed** : 08 Nov 2023 - Jonathan Hester  
**Test Package** : PLANT ( Additional Tests: PrtFilter )

**PARKER HANNIFIN**  
 1440 N 24TH ST  
 MANITOWOC, WI  
 US 54220  
 Contact: RAE MONKA  
 rae.monka@parker.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)

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	43.7	44.9	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2	
Color					no image	no image
Bottom					no image	no image
PrtFilter					no image	no image

## GRAPHS

