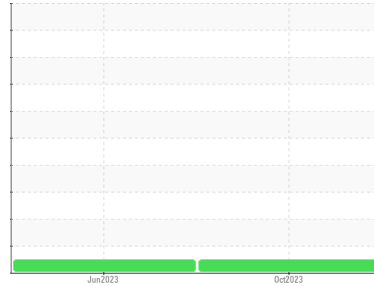




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[187061-N2STV4W]**  
 Machine Id  
**TEST STAND 4**  
 Component  
**Hydraulic System**  
 Fluid  
**SHELL TELLUS 32 (300 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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>PH05995554</b>	PH05918520	---
Sample Date	Client Info			<b>27 Oct 2023</b>	21 Jun 2023	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>3</b>	2	---
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>20	<b>20</b>	18	---
Tin	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

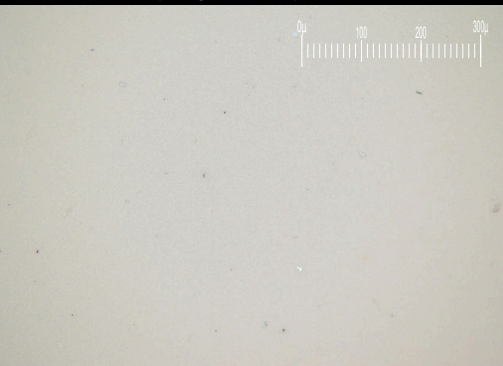
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	11	<b>22</b>	29	---
Calcium	ppm	ASTM D5185m	35	<b>5</b>	4	---
Phosphorus	ppm	ASTM D5185m	259	<b>268</b>	275	---
Zinc	ppm	ASTM D5185m	277	<b>266</b>	282	---
Sulfur	ppm	ASTM D5185m	1865	<b>652</b>	757	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	---
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>165</b>	463	---
Particles >6µm		ASTM D7647	>1300	<b>45</b>	74	---
Particles >14µm		ASTM D7647	>160	<b>6</b>	7	---
Particles >21µm		ASTM D7647	>40	<b>2</b>	1	---
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>15/13/10</b>	16/13/10	---

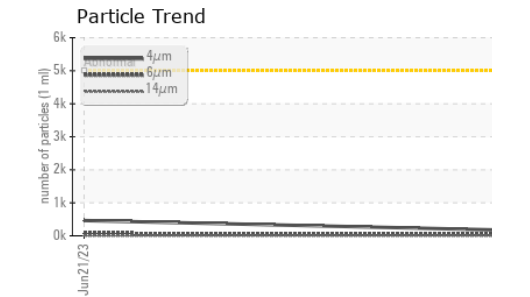
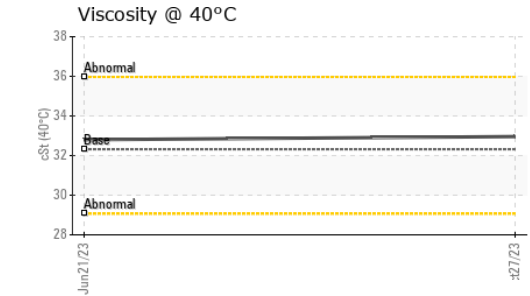
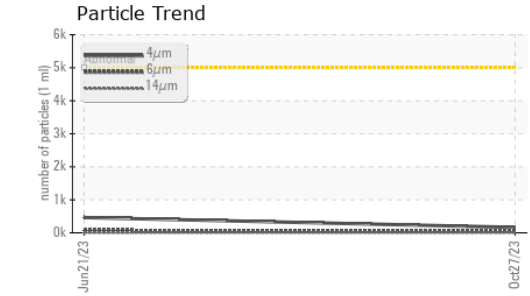
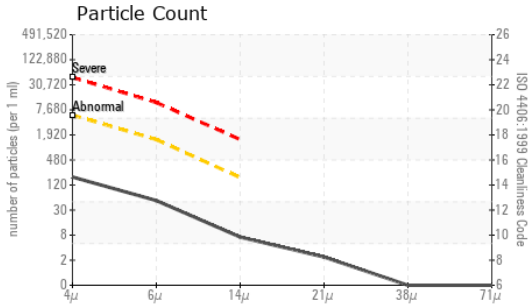
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.32	<b>0.31</b>	0.34	---

Particle Filter (Magn: 200 x)





# OIL ANALYSIS REPORT



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PH05995554 **Received** : 01 Nov 2023  
**Lab Number** : 05995554 **Diagnosed** : 07 Nov 2023  
**Unique Number** : 10723914 **Diagnostician** : Jonathan Hester  
**Test Package** : PLANT ( Additional Tests: PrtFilter )

**PARKER HANNIFIN HPS**  
 14249 INDUSTRIAL PKWY  
 MARYSVILLE, OH  
 US 43040  
 Contact: BRAD NICOL  
 benicol@parker.com  
 T: (937)644-4575  
 F:

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)

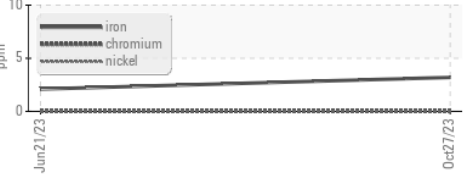
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	32.32	32.8	---

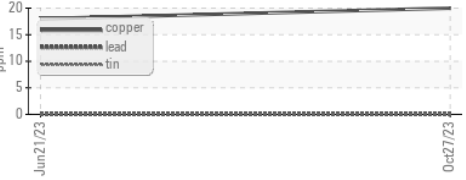
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image
PrtFilter					no image

## GRAPHS

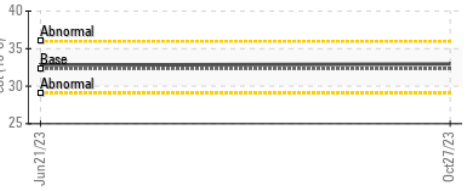
### Ferrous Alloys



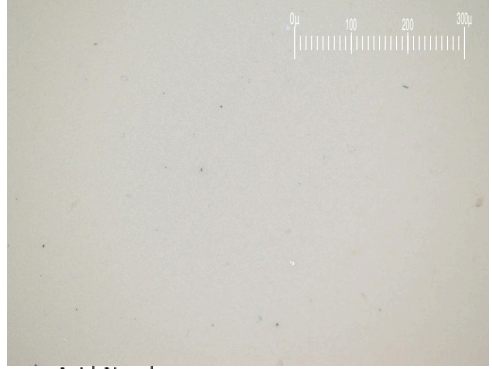
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Filter (Magn: 200 x)



### Acid Number

