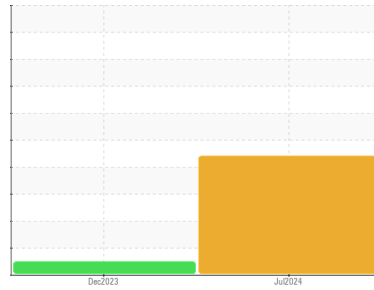




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id

## HPU-001

Component

### Hydraulic System

Fluid

### AW HYDRAULIC OIL ISO 46 (--- GAL)

## DIAGNOSIS

### ▲ Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a high 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			<b>PTK0004946</b>	PTK0004947	---
Sample Date	Client Info			<b>11 Jul 2024</b>	18 Dec 2023	---
Machine Age	mths	Client Info		<b>0</b>	0	---
Oil Age	mths	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>Not Changed</b>	N/A	---
Sample Status				<b>SEVERE</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>5</b>	5	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	2	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>75	<b>14</b>	15	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---

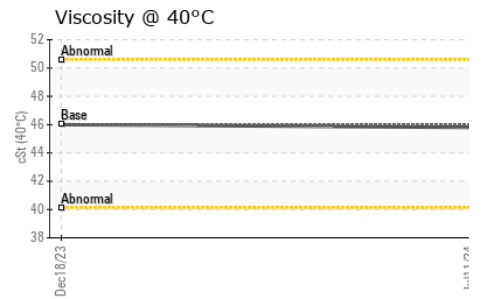
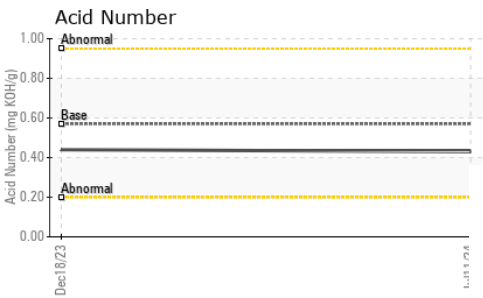
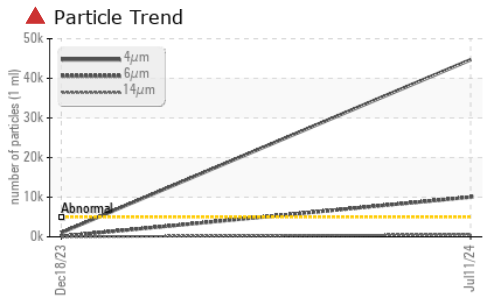
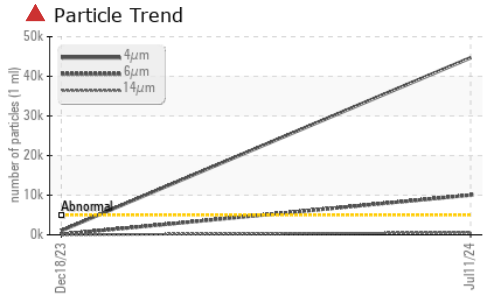
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m	5	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m	25	<b>3</b>	2	---
Calcium	ppm	ASTM D5185m	200	<b>51</b>	56	---
Phosphorus	ppm	ASTM D5185m	300	<b>325</b>	372	---
Zinc	ppm	ASTM D5185m	370	<b>376</b>	413	---
Sulfur	ppm	ASTM D5185m	2500	<b>2116</b>	2270	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>2</b>	3	---
Sodium	ppm	ASTM D5185m		<b>1</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>▲ 44697</b>	1041	---
Particles >6µm		ASTM D7647	>1300	<b>▲ 10030</b>	126	---
Particles >14µm		ASTM D7647	>160	<b>▲ 556</b>	8	---
Particles >21µm		ASTM D7647	>40	<b>▲ 118</b>	3	---
Particles >38µm		ASTM D7647	>10	<b>4</b>	0	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 23/21/16</b>	17/14/10	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.43</b>	0.44	---

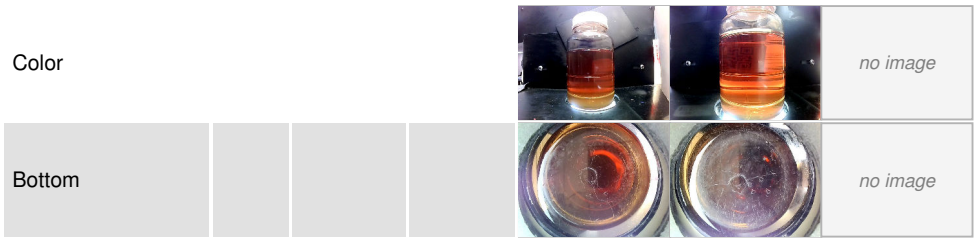
# OIL ANALYSIS REPORT



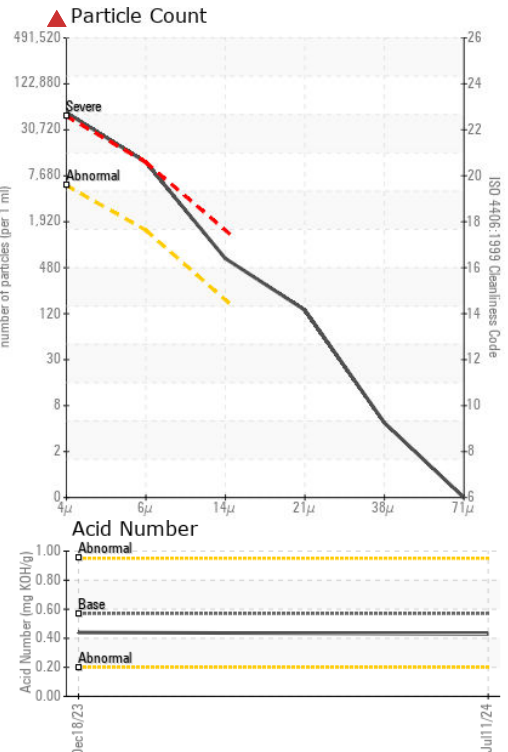
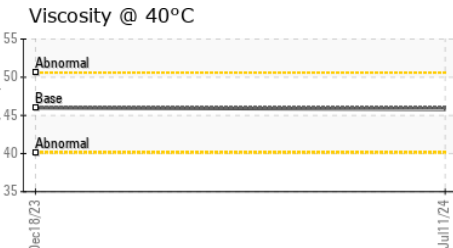
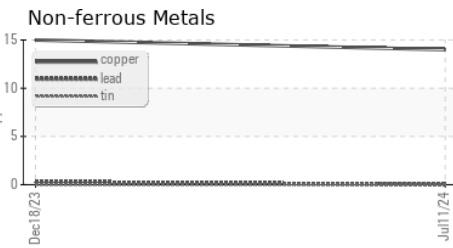
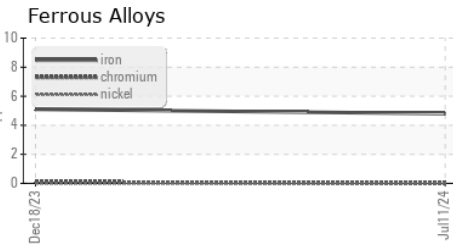
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	45.8	46.0	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PTK0004946      **Received** : 17 Jul 2024  
**Lab Number** : 06239555      **Tested** : 18 Jul 2024  
**Unique Number** : 11128389      **Diagnosed** : 18 Jul 2024 - Wes Davis  
**Test Package** : MOB 2

**PIRTEK DAYTONA**  
 2841 S NOVA ROAD  
 DAYTONA, FL  
 US 32119  
 Contact: TONY FOWLER  
 customerservice@pirtekdaytona.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)