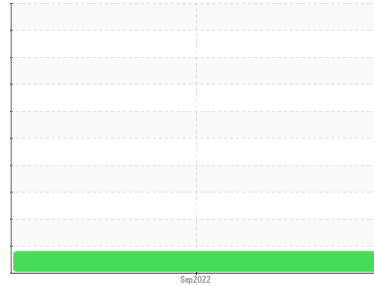




# PROBLEM SUMMARY

Sample Rating Trend

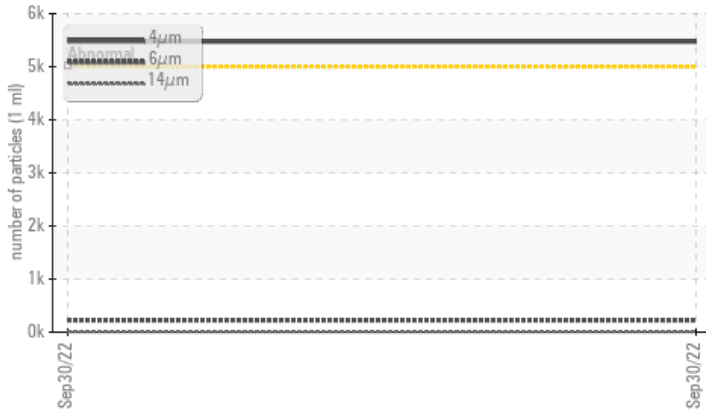
ISO



Machine Id  
**PALFINGER 100460551**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 32 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

No corrective action is recommended at this time.  
 Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ATTENTION</b>	---	---
Particles >4µm	ASTM D7647	>5000	▲ <b>5474</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ <b>20/15/10</b>	---	---

Customer Id: PALJACNJ  
 Sample No.: WC0695580  
 Lab Number: 05721959  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**PALFINGER 100460551**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 32 (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate 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.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0695580</b>	---	---
Sample Date	Client Info	<b>30 Sep 2022</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>ATTENTION</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>2</b>	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	---
Nickel	ppm	ASTM D5185m >10	<b>0</b>	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---
Silver	ppm	ASTM D5185m	<b>0</b>	---
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	---
Lead	ppm	ASTM D5185m >10	<b>0</b>	---
Copper	ppm	ASTM D5185m >75	<b>2</b>	---
Tin	ppm	ASTM D5185m >10	<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 5	<b>7</b>	---
Barium	ppm	ASTM D5185m 5	<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185m 5	<b>4</b>	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185m 25	<b>18</b>	---
Calcium	ppm	ASTM D5185m 200	<b>108</b>	---
Phosphorus	ppm	ASTM D5185m 300	<b>309</b>	---
Zinc	ppm	ASTM D5185m 370	<b>364</b>	---
Sulfur	ppm	ASTM D5185m 2500	<b>1820</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>4</b>	---
Sodium	ppm	ASTM D5185m	<b>2</b>	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 5474</b>	---
Particles >6µm	ASTM D7647	>1300	<b>225</b>	---
Particles >14µm	ASTM D7647	>160	<b>10</b>	---
Particles >21µm	ASTM D7647	>40	<b>2</b>	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 20/15/10</b>	---

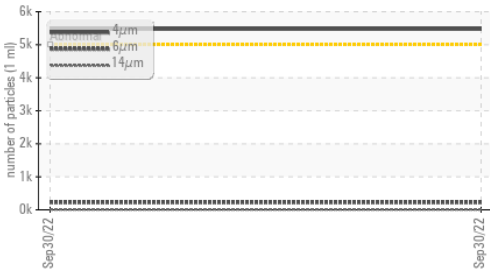
## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	<b>0.42</b>	---



# OIL ANALYSIS REPORT

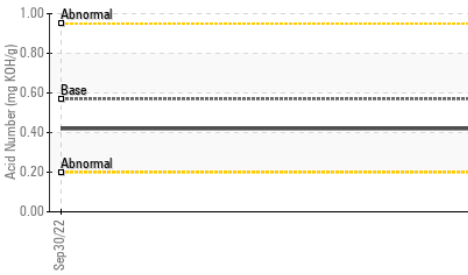
▲ Particle Trend



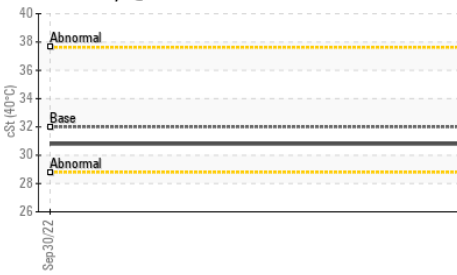
▲ Particle Trend



Acid Number



Viscosity @ 40°C



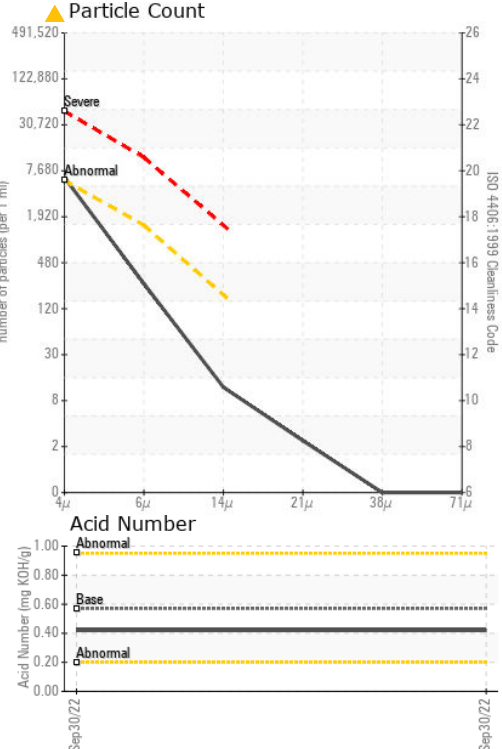
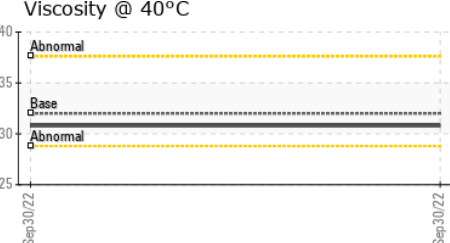
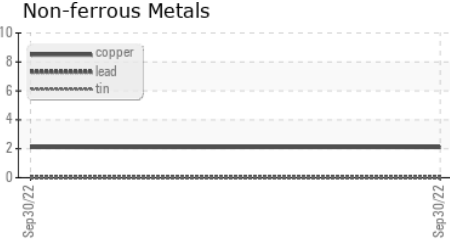
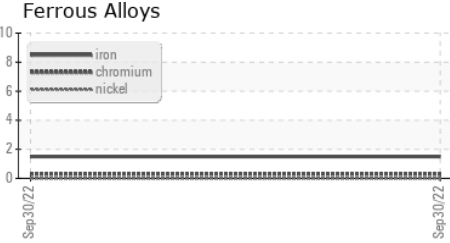
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	32	30.8	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color				no image	no image
Bottom				no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0695580 **Received** : 20 Dec 2022  
**Lab Number** : 05721959 **Diagnosed** : 21 Dec 2022  
**Unique Number** : 10266540 **Diagnostician** : Don Baldrige  
**Test Package** : CONST

**PALFINGER - BRANCH 410**  
 632 CEDAR SWAMP RD  
 JACKSON, NJ  
 US 08527  
 Contact: DON DRESS  
 d.dress@palfinger.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)