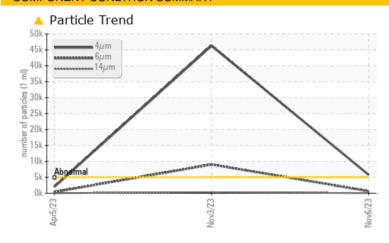


Sample Rating Trend

### COMPONENT CONDITION SUMMARY

AW HYDRAULIC OIL ISO 32 (--- GAL)



### RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status		1	ATTENTION	SEVERE	NORMAL					
Particles >4µm	ASTM D7647 >	×5000 🖌	<b>5758</b>	46276	1978					
Oil Cleanliness	ISO 4406 (c) >	19/17/14	<b>20/17/12</b>	23/20/16	18/16/12					

Customer Id: PALJACNJ Sample No.: WC0813965 Lab Number: 06009069 Test Package: CONST



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com There are no recommended actions for this sample.

### **HISTORICAL DIAGNOSIS**

### 03 Nov 2023 Diag: Wes Davis

ISO

# Check seals and/or filters for points of contaminant entry. 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. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



#### 05 Apr 2023 Diag: Don Baldridge



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





### **OIL ANALYSIS REPORT**

# PALFINGER 50591 - ABC 665

Hydraulic System Fluid AW HYDRAULIC OIL ISO 32 (--- GAL)

### DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

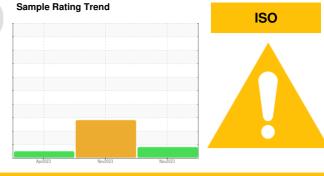
All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

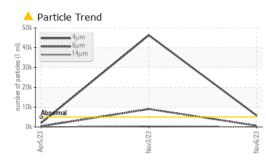
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

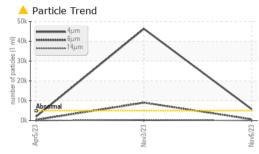


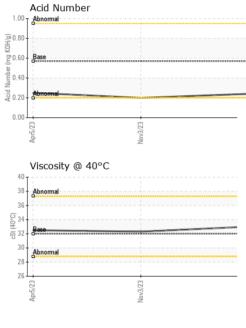
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0813965	WC0813972	WC0747162
Sample Date		Client Info		06 Nov 2023	03 Nov 2023	05 Apr 2023
Machine Age	hrs	Client Info		916	916	338
Oil Age	hrs	Client Info		0	916	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	SEVERE	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	11	3	2
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	1	0
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>75	2	1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	6	6	0
Molybdenum	ppm	ASTM D5185m	5	1	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	7	2	2
Calcium	ppm	ASTM D5185m	200	84	59	56
Phosphorus	ppm	ASTM D5185m	300	363	315	258
Zinc	ppm	ASTM D5185m	370	368	340	329
Sulfur	ppm	ASTM D5185m	2500	2675	2152	1893
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	<1	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	46276	1978
Particles >6µm		ASTM D7647	>1300	641	<b>4</b> 9041	406
Particles >14µm		ASTM D7647	>160	37	<b>A</b> 357	40
Particles >21µm		ASTM D7647	>40	10	<b>▲</b> 78	12
Particles >38µm		ASTM D7647	>10	0	2	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 20/17/12	• 23/20/16	18/16/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.24	0.20	0.25
. ,						



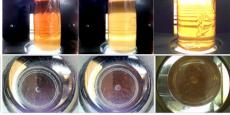
## **OIL ANALYSIS REPORT**



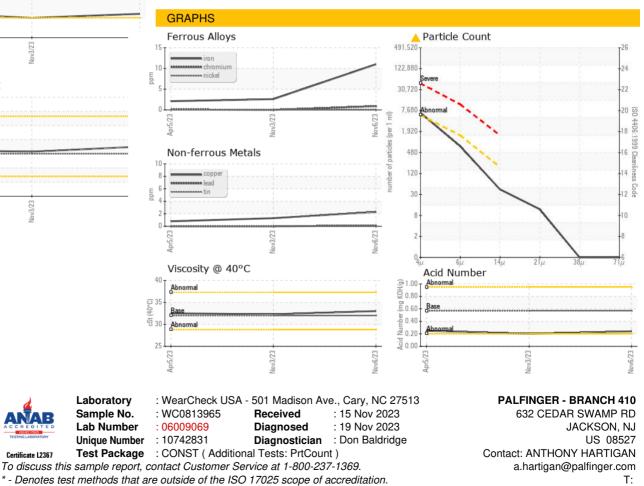




VISUAL method limit/base history1 history2 current NONE White Metal \*Visual NONE NONE NONE scalar Yellow Metal NONE NONE NONE NONE scalar \*Visual Precipitate scalar \*Visua NONE NONE NONE NONE Silt scalar \*Visual NONE NONE LIGHT NONE NONE NONE Debris \*Visual NONE NONE scalar NONE Sand/Dirt scalar \*Visual NONE NONE NONE NORML Appearance \*Visual NORML NORML NORML scalar \*Visual NORML Odor scalar NORML NORML NORML \*Visual **Emulsified Water** scalar >0.1 NEG NEG NEG Free Water scalar \*Visual NEG NEG NEG FLUID PROPERTIES method limit/base curren history history2 Visc @ 40°C cSt ASTM D445 32 33.0 32.3 32.5 SAMPLE IMAGES limit/base history2 method history1 current Color



Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

F: