

PROBLEM SUMMARY

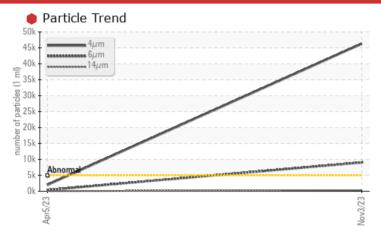
Sample Rating Trend

PALFINGER 50591 - ABC 665

Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS									
Sample Status			SEVERE	NORMAL					
Particles >4µm	ASTM D7647	>5000	46276	1978					
Particles >6μm	ASTM D7647	>1300	9041	406					
Particles >14µm	ASTM D7647	>160	4 357	40					
Particles >21µm	ASTM D7647	>40	A 78	12					
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/20/16	18/16/12					

Customer Id: PALJACNJ **Sample No.:** WC0813972 Lab Number: 06009067 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample			?	Resample in 30-45 days to monitor this situation.		
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.		
Check Breathers			?	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.		
Check Seals			?	Check seals and/or filters for points of contaminant entry.		

HISTORICAL DIAGNOSIS

05 Apr 2023 Diag: Don Baldridge

NORMAL



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

AW HYDRAULIC OIL ISO 32 (--- GAL)

Sample Rating Trend

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

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

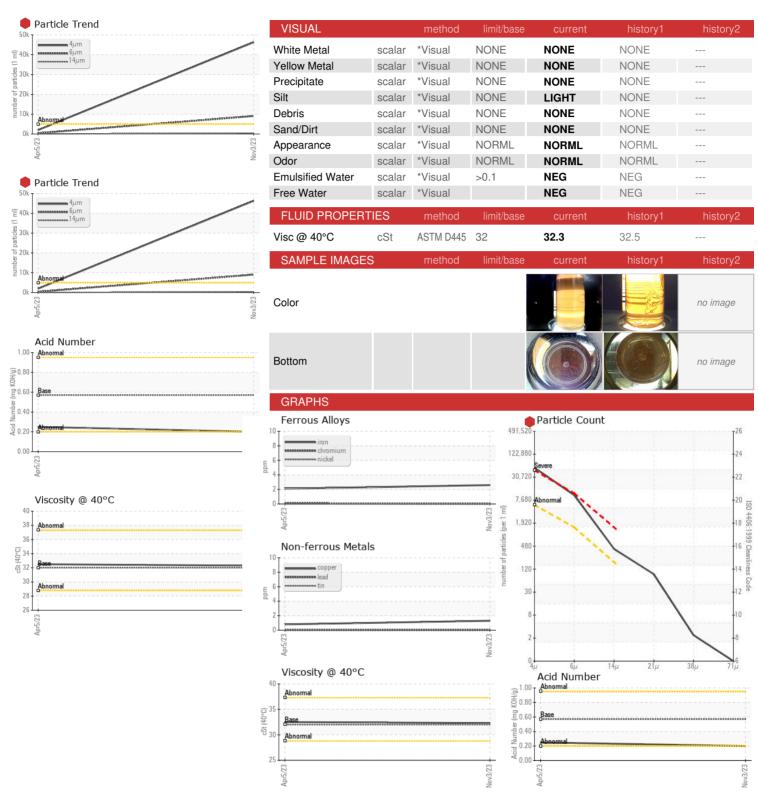
Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

			Apr2023	Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0813972	WC0747162	
Sample Date		Client Info		03 Nov 2023	05 Apr 2023	
Machine Age	hrs	Client Info		916	338	
Oil Age	hrs	Client Info		916	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				SEVERE	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3	2	
Chromium	ppm	ASTM D5185m	>10	0	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	1	0	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>75	1	<1	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	
Barium	ppm	ASTM D5185m	5	6	0	
Molybdenum	ppm	ASTM D5185m	5	<1	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	25	2	2	
Calcium	ppm	ASTM D5185m	200	59	56	
Phosphorus	ppm	ASTM D5185m	300	315	258	
Zinc	ppm	ASTM D5185m	370	340	329	
Sulfur	ppm	ASTM D5185m	2500	2152	1893	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	2	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	<1	<1	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	46276	1978	
Particles >6µm		ASTM D7647	>1300	<u> </u>	406	
Particles >14μm		ASTM D7647	>160	<u> </u>	40	
Particles >21μm		ASTM D7647	>40	<u> </u>	12	
Particles >38μm		ASTM D7647	>10	2	1	
Particles >71μm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	23/20/16	18/16/12	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
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OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WC0813972 : 06009067 : 10742829

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 15 Nov 2023 : 16 Nov 2023

: Wes Davis Diagnostician

Test Package : CONST (Additional Tests: PrtCount) 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)

PALFINGER - BRANCH 410

632 CEDAR SWAMP RD JACKSON, NJ US 08527

Contact: ANTHONY HARTIGAN

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