

PROBLEM SUMMARY

Sample Rating Trend

ISO

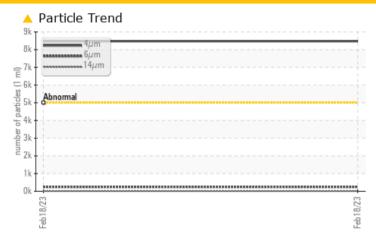
PALFINGER 994 - UNITED RENTALS

Component

Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 32. Please confirm.

PROBLEMATIC T	EST RESULTS				
Sample Status			ATTENTION	 	
Particles >4µm	ASTM D7647	>5000	<u> </u>	 	
Oil Cleanliness	ISO 4406 (c)	~19/17/1 <i>∆</i>	A 20/15/11	 	

Customer Id: PALCAL Sample No.: WC0780058 Lab Number: 05961721 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		
Alert			?	The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 32. Please confirm.		
Information Required			?	The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 32. Please confirm.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

Rating Trend
ISO

Machine Id

PALFINGER 994 - UNITED RENTALS

Component

Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 32. Please confirm.

Wear

All component wear rates are normal.

Contamination

There is a light 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.

				Feb 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0780058		
Sample Date		Client Info		18 Feb 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3		
Chromium	ppm	ASTM D5185m	>10	2		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	3		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	2		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	25	1		
Calcium	ppm	ASTM D5185m	200	48		
Phosphorus	ppm	ASTM D5185m	300	242		
Zinc	ppm	ASTM D5185m	370	302		
Sulfur	ppm	ASTM D5185m	2500	1686		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	1		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 8475		
Particles >6µm		ASTM D7647	>1300	246		
Particles >14μm		ASTM D7647	>160	15		
Particles >21µm		ASTM D7647	>40	5		
Particles >38µm		ASTM D7647	>10	2		
Particles >71μm		ASTM D7647	>3	2		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/15/11		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	та КОЦ/а	VCTM DOUVE	0.57	0.24		

Acid Number (AN) mg KOH/g ASTM D8045 0.57

0.24



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: WC0780058 : 05961721

: 10662934 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Sep 2023 : 28 Sep 2023 Diagnosed

: Wes Davis Diagnostician

Contact: S. GARIBAY s.garibay@palfinger.com T:

CALIFORNIA 291

CA

F:

US

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)