

### **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **PALFINGER 100742994**

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

#### DIAGNOSIS

#### Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. 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 moderate 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 INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0897355		
Sample Date		Client Info		14 Jul 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	2		
_ead	ppm	ASTM D5185m	>10	- <1		
Copper	ppm	ASTM D5185m	>75	<1		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m	- 10	0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	0		
Volybdenum	ppm	ASTM D5185m	5	2		
Vanganese	ppm	ASTM D5185m		0		
Vagnesium	ppm	ASTM D5185m	25	15		
Calcium	ppm	ASTM D5185m	200	92		
Phosphorus	ppm	ASTM D5185m	300	359		
Zinc	ppm	ASTM D5185m	370	480		
Sulfur	ppm	ASTM D5185m	2500	1394		
CONTAMINANTS	pp	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1		
Sodium	ppm	ASTM D5185m	0	0		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	8462		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>160	<b>6</b> 524		
Particles >21µm		ASTM D7647	>40	<u> </u>		
Particles >38µm		ASTM D7647	>10	<u> </u>		
Particles >71µm				3		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.49		
85:53) Boy: 1	9 9		-		t/Location: EBI	

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Contact/Location: ERIC HILL - PALTIF Page 1 of 2



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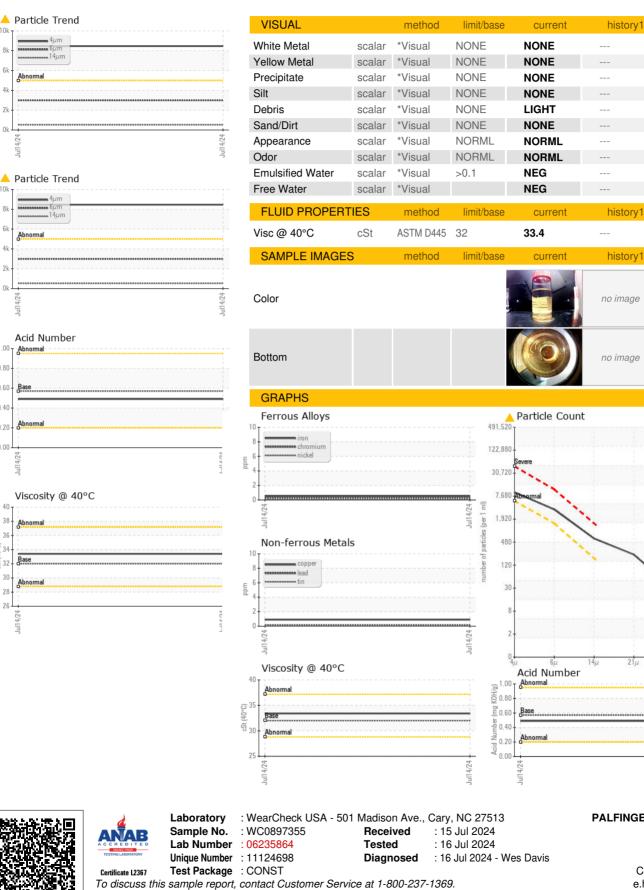
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Abnormal

Abnorma

umber of particles (1 ml)

## **OIL ANALYSIS REPORT**



\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

**PALFINGER - BRANCH 400** 4151 W ST RT 18 TIFFIN, OH US 44883 Contact: ERIC HILL e.hill@palfinger.com T: (419)448-8156 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) E:

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history2

history

history2

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