

# **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

Machine Id PALFINGER 1100072903

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

#### DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. 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.

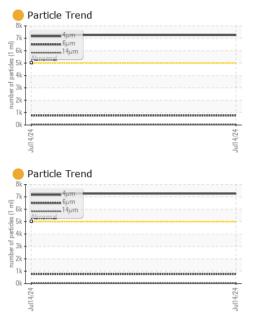
SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0813980		
Sample Date		Client Info		14 Jul 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method		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		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m		1		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	4		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	3		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	25	22		
Calcium	ppm	ASTM D5185m	200	78		
Phosphorus	ppm	ASTM D5185m	300	271		
Zinc	ppm	ASTM D5185m	370	341		
Sulfur	ppm	ASTM D5185m	2500	983		
CONTAMINANTS			limit/base		history1	history?
Silicon		method ASTM D5185m	>20	current 3	history1	history2
Sodium	ppm		>20	0		
	ppm	ASTM D5185m	× 20	•		
Potassium	ppm	ASTM D5185m		1		
FLUID CLEANLIN	IESS	method	limit/base		history1	history2
Particles >4µm		ASTM D7647	>5000	<b>7256</b>		
Particles >6µm		ASTM D7647		759		
Particles >14µm		ASTM D7647	>160	54		
Particles >21µm		ASTM D7647		17		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647		1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>e</b> 20/17/13		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.44		
·36·01) Boy: 1				Conto	t/Location: EBI	

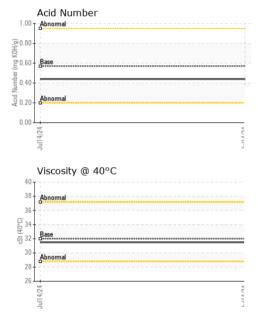
Report Id: PALTIF [WUSCAR] 06235865 (Generated: 07/16/2024 09:36:01) Rev: 1

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



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VISUAL		mothod	limit/boog	ourropt	history	history
		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	LIGHT		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Ddor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
′isc @ 40°C	cSt	ASTM D445	32	31.5		
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color					no image	no image
					0	
Bottom					no imoro	no imore
bottom					no image	no image
GRAPHS						
Ferrous Alloys			491,52	Particle Count		T
iron						
nickel			122,880	Severe		-2
			30,72			-2
			7.09			
24			24 (Im 1,000	Abnormal		-2
Jul14/24			Jul14/24 (per 1 ml			-1
Non-ferrous Metal	c		Jull 4/24-	1		
			of par			
copper			ja 120	-		-1
			2 31			-1
				8-	1	·†
4/24			4/24	2-		
Jul14/24			Jul14/24			
Viscosity @ 40°C				4μ 6μ Acid Number	14µ 21µ	38µ 71µ
				Abnormal		
Abnormal			Ho 0.80	D <b>-</b>		
Base			Ĕ 0.60	Base		
Abnormal			()) 0.80 0.61 0.01 0.21 0.21 0.21 0.21 0.21 0.21	Abnormal		
			4 pop			
1/24				) —		
Jul14/24			Jul14/24	Jul14/24		
VearCheck USA - 50 VC0813980 6235865	Rece Teste	ived : 18 ed : 16	y, NC 27513 5 Jul 2024 6 Jul 2024		PALFINGER 41	51 W ST RT TIFFIN, (
124699 NST	Diagr	16 inosed	5 Jul 2024 - W	les Davis	Con	US 448 tact: EBIC HI

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)

Certificate L2367

Laboratory : WearCh Sample No. : WC0813 Lab Number : 0623586 Unique Number : 1112469 Test Package : CONST

Contact/Location: ERIC HILL - PALTIF

F:

Contact: ERIC HILL

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