

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

PALFINGER Williston 56346

Component 2 Hydraulic System Fluid 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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0881185		
Sample Date		Client Info		05 Jun 2024		
Machine Age	hrs	Client Info		5414		
Oil Age	hrs	Client Info		5414		
Oil Changed	1110	Client Info		N/A		
Sample Status				ABNORMAL		
·				-		
CONTAMINATION	N	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	4		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	0		
_ead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	0		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	3		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	25	12		
Calcium	ppm	ASTM D5185m	200	74		
Phosphorus	ppm	ASTM D5185m	300	394		
Zinc	ppm	ASTM D5185m	370	392		
Sulfur	ppm	ASTM D5185m	2500	1440		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	3		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	13053		
i aiticies >4µiii		10110101041	20000	_ 10000		
•		ASTM D7647		▲ 3068		
Particles >6µm						
Particles >6µm Particles >14µm		ASTM D7647	>1300 >160	A 3068		
Particles >6μm Particles >14μm Particles >21μm		ASTM D7647 ASTM D7647	>1300 >160	▲ 3068 ▲ 344		
Particles >6μm Particles >14μm Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647 ASTM D7647	>1300 >160 >40 >10	 ▲ 3068 ▲ 344 ▲ 89 		
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>1300 >160 >40 >10	 ▲ 3068 ▲ 344 ▲ 89 2 		
Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	TION	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>1300 >160 >40 >10 >3	 3068 344 89 2 0 		
Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Dil Cleanliness	.TION mg KOH/g	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c)	>1300 >160 >40 >10 >3 >19/17/14	 3068 344 89 2 0 21/19/16 		

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14 12

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6

4

2

0

14

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6k

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Pio 0.20

0.00

40

38

36

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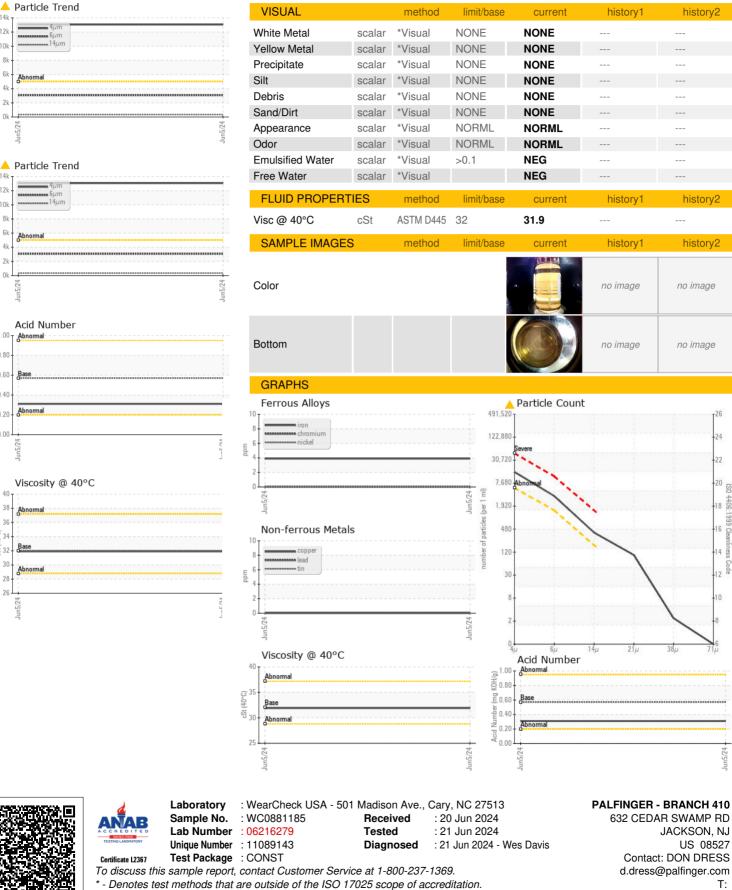
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28 26

Abnormal

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

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US 08527

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history2

history

history2

no imade

no imade

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