

OIL ANALYSIS REPORT

Sample Rating Trend WATER

PALFINGER US328 - UNIVERSAL SUPPLY Component

Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water 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	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0695533	WC0554901	WC0598019
Sample Date		Client Info		31 Jan 2023	10 Feb 2022	03 Jan 2022
Machine Age	hrs	Client Info		1335	1335	0
Oil Age	hrs	Client Info		1335	1335	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	0	4
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	nom	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m	>10	0	0	0
Silvor	ppm	ASTM D5185m		0	<1	1
Aluminum	ppm	ASTM D5105m	>10	0	0	-1
	ppin	ACTM DE105m	>10	0	0	<1
	ppin	ACTM DE105m	>10	0	0	< 1
Jopper	ppm		>/5	0	<	
	ppm	ASTM D5185m	>10	0	<	<
Antimony	ppm	ASTM D5185m			<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	2	0	6
Barium	ppm	ASTM D5185m	5	0	0	0
Volybdenum	ppm	ASTM D5185m	5	2	0	<1
Vanganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	25	22	3	2
Calcium	ppm	ASTM D5185m	200	149	176	177
Phosphorus	ppm	ASTM D5185m	300	348	319	314
Zinc	ppm	ASTM D5185m	370	442	381	370
Sulfur	ppm	ASTM D5185m	2500	1120	907	1028
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	<1	1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.1	6 0.148	▲ 0.427	▲ 0.526
opm Water	ppm	ASTM D6304	>1000	480	4270	▲ 5260
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 26476	2966	3530
Particles >6µm		ASTM D7647	>1300	<u> </u>	1 616	1 923
Particles >14µm		ASTM D7647	>160	131	1 275	<u> </u>
Particles >21µm		ASTM D7647	>40	14	9 3	1 10
Particles >38µm		ASTM D7647	>10	0	1 4	▲ 17
Particles >71um		ASTM D7647	>3	0	1	<u> </u>
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 22/20/14	▲ 19/18/15	▲ 19/18/16
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045	0.57	0.37	0.38	0.357
52.26) Dov: 1			5.07	Submitted By: TECHNICIAN ACCOUNT		

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0

12000

1000

600 Water 400

12000

1000

(maa)

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