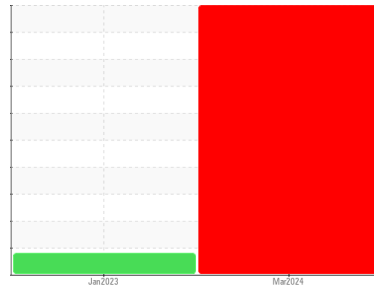




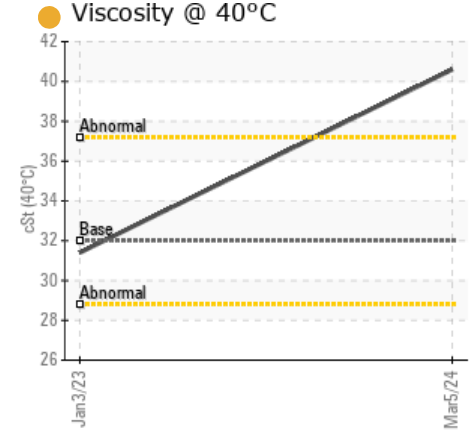
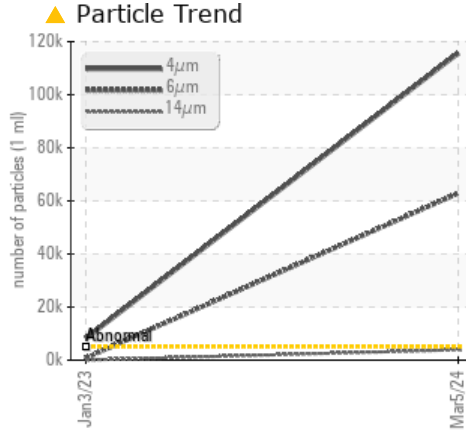
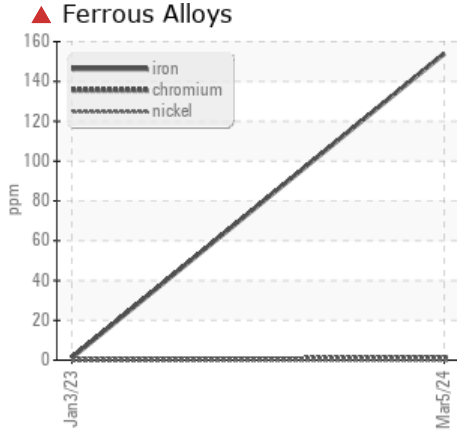
PROBLEM SUMMARY

Sample Rating Trend



Machine Id
PALFINGER NN298357 - SRS ROOF LINE
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 32 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	ATTENTION	---
Iron ppm	▲ 154	1	---
Particles >4µm	▲ 11587	8166	---
Particles >6µm	▲ 62879	784	---
Particles >14µm	▲ 3886	42	---
Particles >21µm	▲ 1096	11	---
Particles >38µm	▲ 58	1	---
Particles >71µm	▲ 6	0	---
Oil Cleanliness	▲ 24/23/19	20/17/13	---

Customer Id: PALCAL
 Sample No.: WC0814031
 Lab Number: 06153022
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

ISO



03 Jan 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

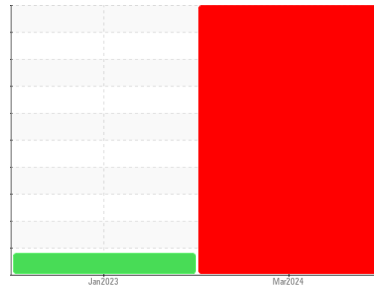
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
PALFINGER NN298357 - SRS ROOF LINE

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS

▲ Recommendation

The filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

The iron level is severe.

▲ Contamination

There is a high amount of particulates present in the oil. Appearance is hazy.

● Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0814031	WC0747057	---
Sample Date	Client Info			05 Mar 2024	03 Jan 2023	---
Machine Age	hrs	Client Info		1055	571	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				SEVERE	ATTENTION	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	▲ 154	1	---
Chromium	ppm	ASTM D5185m	>10	1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>10	0	0	---
Lead	ppm	ASTM D5185m	>10	0	<1	---
Copper	ppm	ASTM D5185m	>75	2	2	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	1	---
Barium	ppm	ASTM D5185m	5	0	1	---
Molybdenum	ppm	ASTM D5185m	5	0	2	---
Manganese	ppm	ASTM D5185m		1	0	---
Magnesium	ppm	ASTM D5185m	25	5	19	---
Calcium	ppm	ASTM D5185m	200	36	80	---
Phosphorus	ppm	ASTM D5185m	300	294	324	---
Zinc	ppm	ASTM D5185m	370	272	396	---
Sulfur	ppm	ASTM D5185m	2500	1491	1720	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	5	---
Sodium	ppm	ASTM D5185m		151	0	---
Potassium	ppm	ASTM D5185m	>20	4	1	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 115587	● 8166	---
Particles >6µm		ASTM D7647	>1300	▲ 62879	784	---
Particles >14µm		ASTM D7647	>160	▲ 3886	42	---
Particles >21µm		ASTM D7647	>40	▲ 1096	11	---
Particles >38µm		ASTM D7647	>10	▲ 58	1	---
Particles >71µm		ASTM D7647	>3	▲ 6	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/23/19	● 20/17/13	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.20	0.51	---

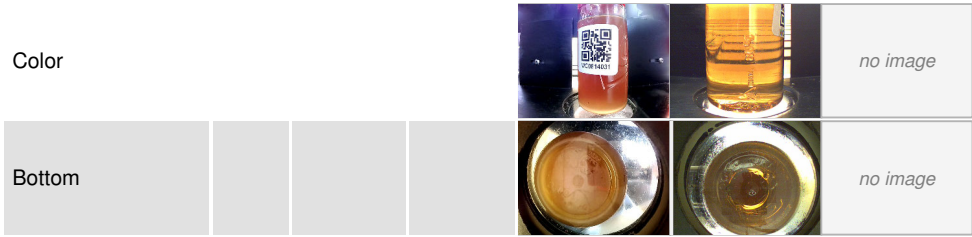


OIL ANALYSIS REPORT

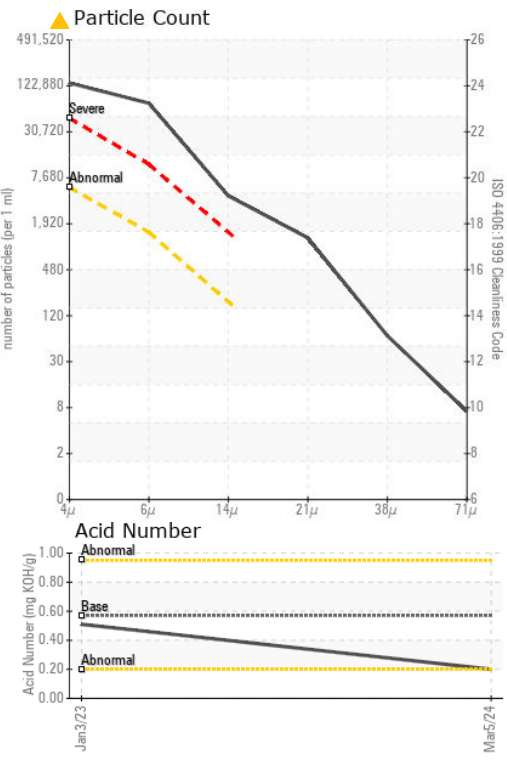
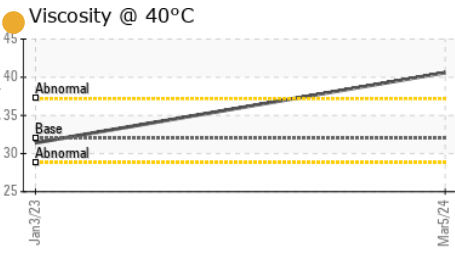
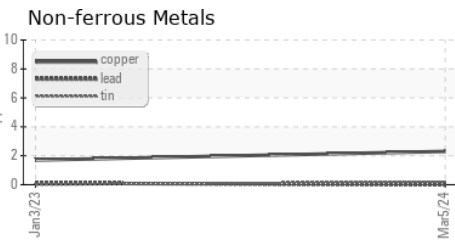
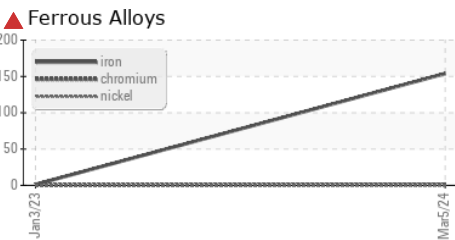
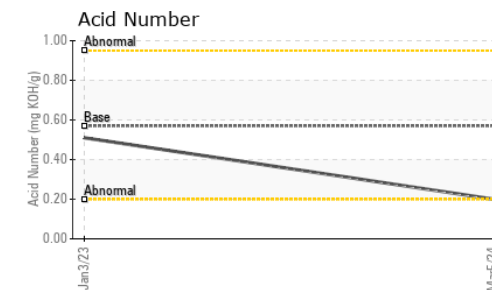
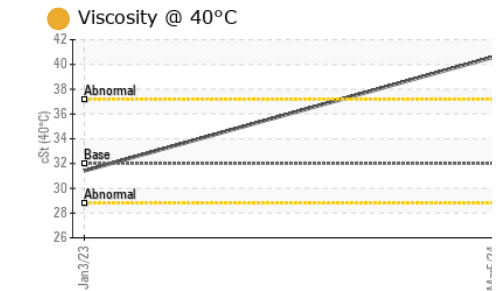
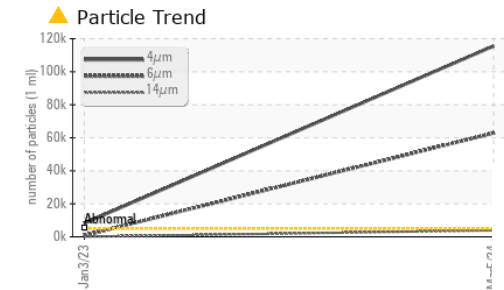
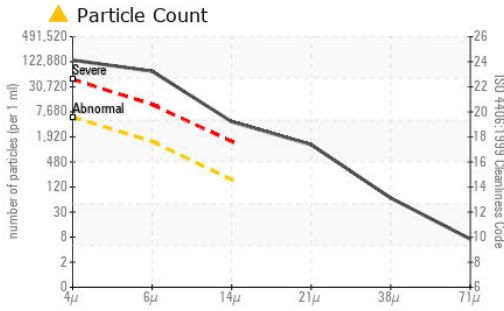
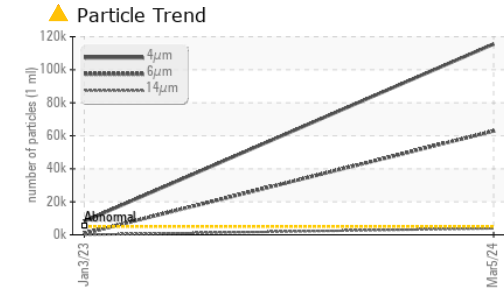
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 32	40.6	31.4	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0814031 **Received** : 18 Apr 2024
Lab Number : 06153022 **Tested** : 19 Apr 2024
Unique Number : 10983100 **Diagnosed** : 22 Apr 2024 - Don Baldrige
Test Package : CONST

PALFINGER
 CALIFORNIA 291
 , CA
 US
 Contact: MATVEY BIRULLA
 m.birulla@palfinger.com
 T: (619)366-1270
 F:

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)