



PROBLEM SUMMARY

Sample Rating Trend

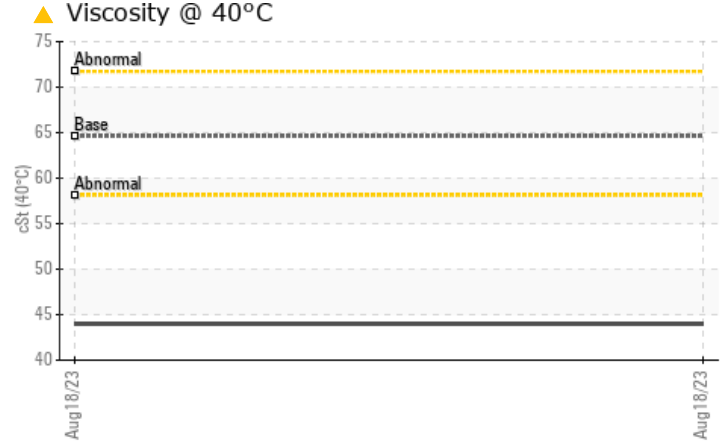
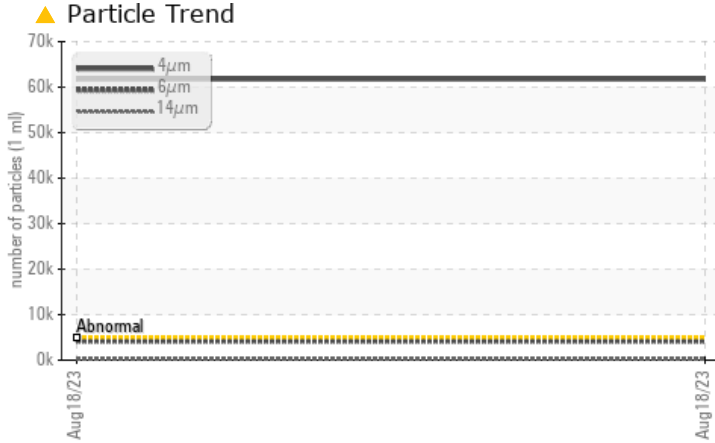


VISCOSITY



Machine Id
PALFINGER PALFINGER PW42
 Component
Tank Hydraulic System
 Fluid
CHEVRON HYDRAULIC AW ISO 68 (45 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Particles >4µm	ASTM D7647	>5000	▲ 61741	---	---	---
Particles >6µm	ASTM D7647	>1300	▲ 4195	---	---	---
Particles >14µm	ASTM D7647	>160	▲ 188	---	---	---
Particles >21µm	ASTM D7647	>40	▲ 51	---	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 23/19/15	---	---	---
Visc @ 40°C	cSt ASTM D445	64.6	▲ 44.0	---	---	---

Customer Id: PALALT
 Sample No.: WC0780299
 Lab Number: 05936630
 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

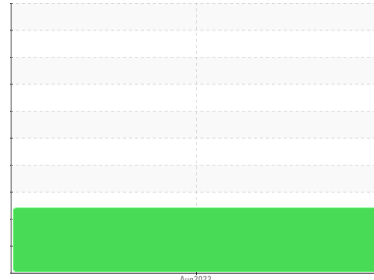
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
PALFINGER PALFINGER PW42
 Component
Tank Hydraulic System
 Fluid
CHEVRON HYDRAULIC AW ISO 68 (45 GAL)

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0780299	---	---
Sample Date	Client Info	18 Aug 2023	---	---
Machine Age	hrs Client Info	4415	---	---
Oil Age	hrs Client Info	4415	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >20	7	---	---
Chromium ppm	ASTM D5185m >10	<1	---	---
Nickel ppm	ASTM D5185m >10	0	---	---
Titanium ppm	ASTM D5185m	1	---	---
Silver ppm	ASTM D5185m	<1	---	---
Aluminum ppm	ASTM D5185m >10	1	---	---
Lead ppm	ASTM D5185m >10	0	---	---
Copper ppm	ASTM D5185m >75	<1	---	---
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	25	---	---
Barium ppm	ASTM D5185m	0	---	---
Molybdenum ppm	ASTM D5185m	5	---	---
Manganese ppm	ASTM D5185m	<1	---	---
Magnesium ppm	ASTM D5185m	48	---	---
Calcium ppm	ASTM D5185m	1094	---	---
Phosphorus ppm	ASTM D5185m	396	---	---
Zinc ppm	ASTM D5185m	432	---	---
Sulfur ppm	ASTM D5185m	2623	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >20	3	---	---
Sodium ppm	ASTM D5185m	22	---	---
Potassium ppm	ASTM D5185m >20	<1	---	---

FLUID CLEANLINESS

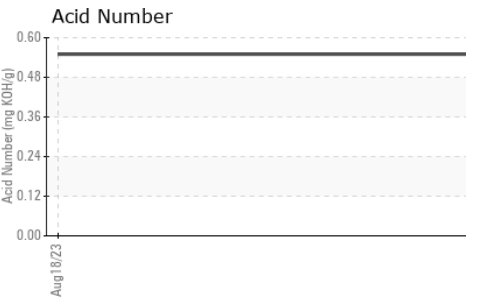
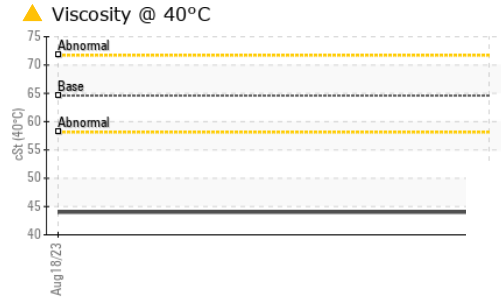
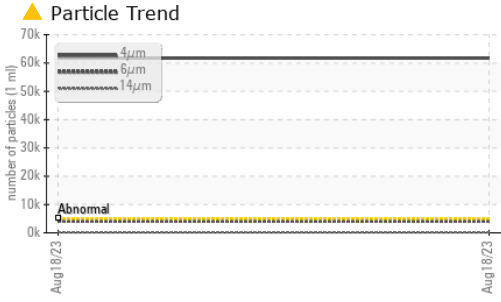
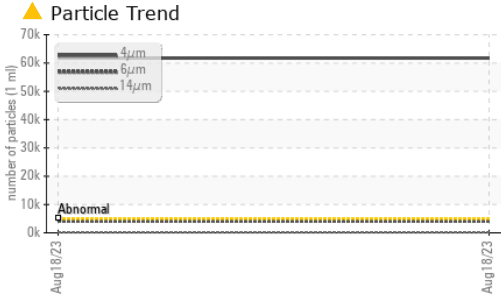
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 61741	---	---
Particles >6µm	ASTM D7647 >1300	▲ 4195	---	---
Particles >14µm	ASTM D7647 >160	▲ 188	---	---
Particles >21µm	ASTM D7647 >40	▲ 51	---	---
Particles >38µm	ASTM D7647 >10	3	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 23/19/15	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.55	---	---



OIL ANALYSIS REPORT



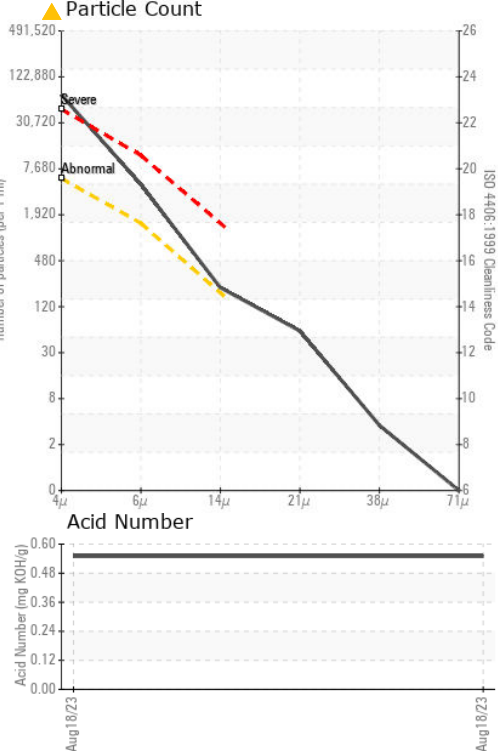
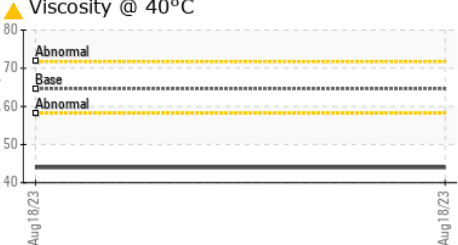
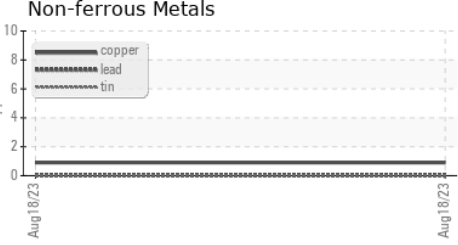
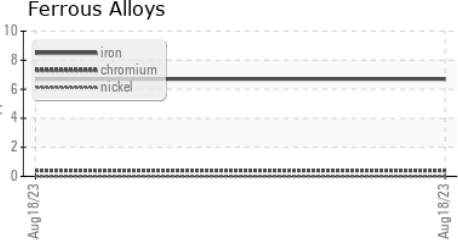
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	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	64.6	▲ 44.0	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0780299 **Received** : 28 Aug 2023
Lab Number : 05936630 **Diagnosed** : 29 Aug 2023
Unique Number : 10621901 **Diagnostician** : Don Baldrige
Test Package : CONST

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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)