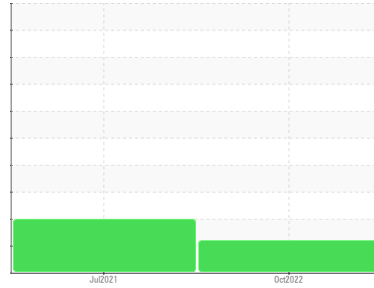




PROBLEM SUMMARY

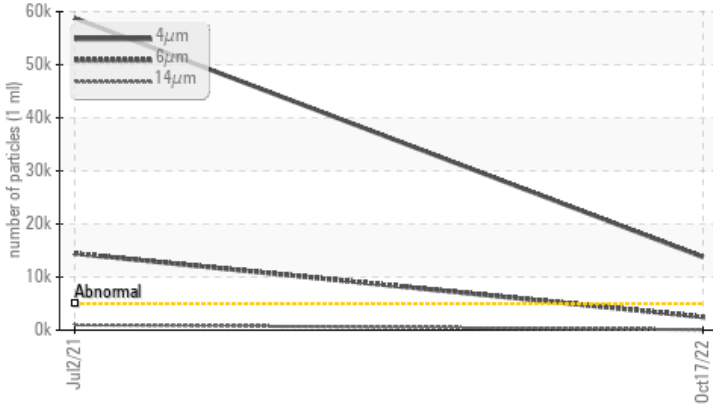
Area
{UNASSIGNED}
 Machine Id
HIAB 3222440
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (45)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	---
Particles >4µm	ASTM D7647	>5000	▲ 13770	▲ 58784	---
Particles >6µm	ASTM D7647	>1300	▲ 2484	▲ 14431	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/18/13	▲ 23/21/17	---

Customer Id: PALJACNJ
 Sample No.: WC0695578
 Lab Number: 05721944
 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

02 Jul 2021 Diag: Doug Bogart

ISO



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. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

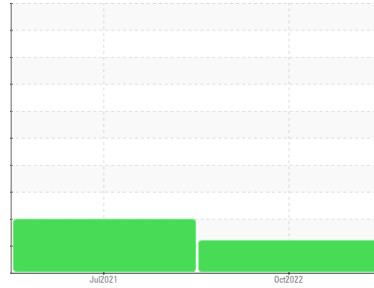
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
{UNASSIGNED}
Machine Id
HIAB 3222440
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (45)

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.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0695578	WC0554953	---
Sample Date	Client Info	17 Oct 2022	02 Jul 2021	---
Machine Age	hrs	Client Info	967	967
Oil Age	hrs	Client Info	967	0
Oil Changed	Client Info	N/A	Not Changd	---
Sample Status		ABNORMAL	ABNORMAL	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	2	<1	---
Chromium	ppm	ASTM D5185m >10	<1	0	---
Nickel	ppm	ASTM D5185m >10	0	<1	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >10	0	0	---
Lead	ppm	ASTM D5185m >10	<1	0	---
Copper	ppm	ASTM D5185m >75	1	<1	---
Tin	ppm	ASTM D5185m >10	0	<1	---
Antimony	ppm	ASTM D5185m	---	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	<1	0	---
Molybdenum	ppm	ASTM D5185m 5	<1	<1	---
Manganese	ppm	ASTM D5185m	<1	0	---
Magnesium	ppm	ASTM D5185m 25	3	0	---
Calcium	ppm	ASTM D5185m 200	53	20	---
Phosphorus	ppm	ASTM D5185m 300	316	40	---
Zinc	ppm	ASTM D5185m 370	409	168	---
Sulfur	ppm	ASTM D5185m 2500	2588	1443	---

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >20	<1	0	---
Sodium	ppm	ASTM D5185m	<1	<1	---
Potassium	ppm	ASTM D5185m >20	0	0	---

FLUID CLEANLINESS

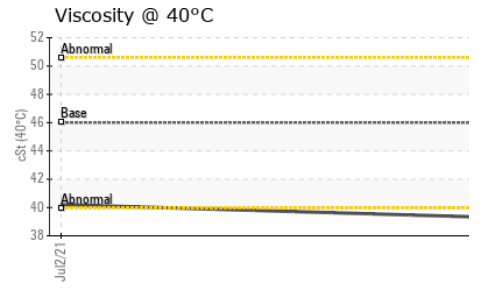
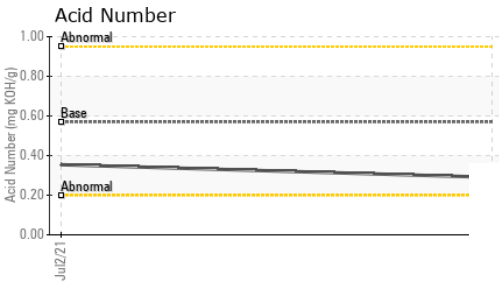
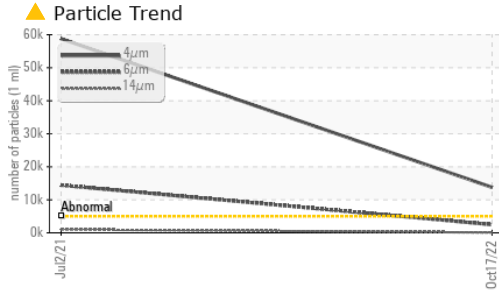
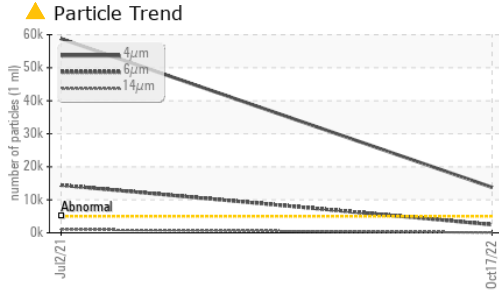
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 13770	▲ 58784	---
Particles >6µm	ASTM D7647 >1300	▲ 2484	▲ 14431	---
Particles >14µm	ASTM D7647 >160	78	▲ 1002	---
Particles >21µm	ASTM D7647 >40	14	▲ 241	---
Particles >38µm	ASTM D7647 >10	0	▲ 35	---
Particles >71µm	ASTM D7647 >3	0	2	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 21/18/13	▲ 23/21/17	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	0.29	0.354	---



OIL ANALYSIS REPORT



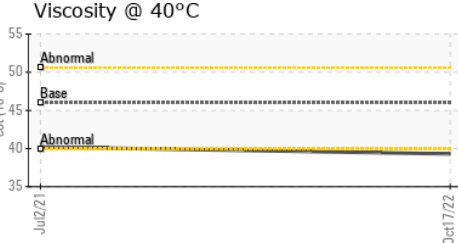
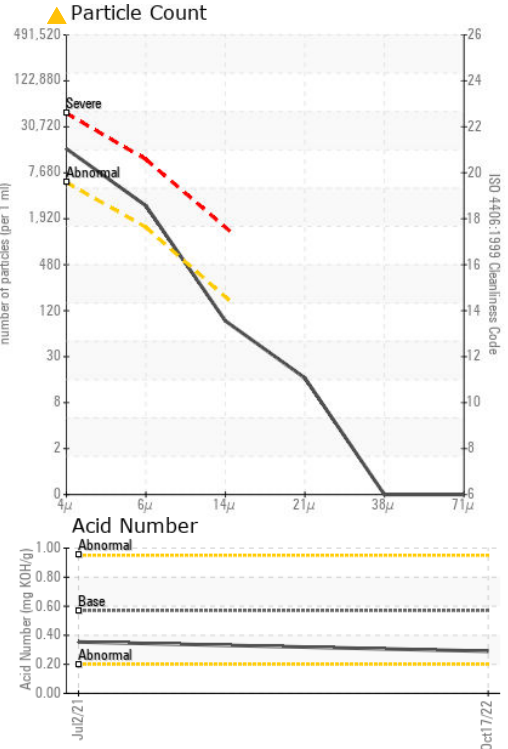
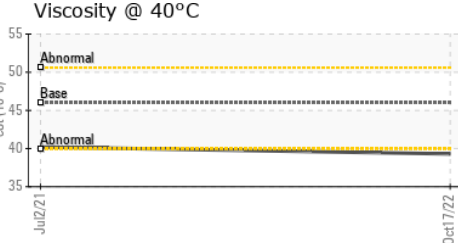
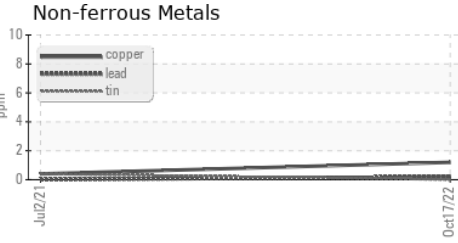
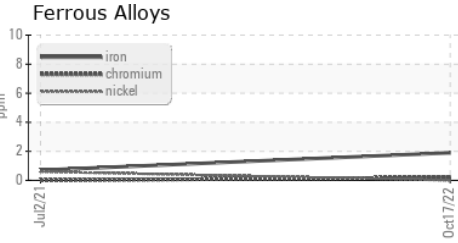
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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 46	39.3	40.2	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0695578 **Received** : 20 Dec 2022
Lab Number : 05721944 **Diagnosed** : 21 Dec 2022
Unique Number : 10266525 **Diagnostician** : Don Baldrige
Test Package : CONST

PALFINGER - BRANCH 410
 632 CEDAR SWAMP RD
 JACKSON, NJ
 US 08527
 Contact: DON DRESS
 d.dress@palfinger.com
 T:
 F:

Certificate L2367
 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)