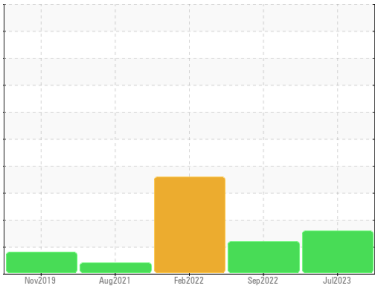
PROBLEM SUMMARY

Sample Rating Trend

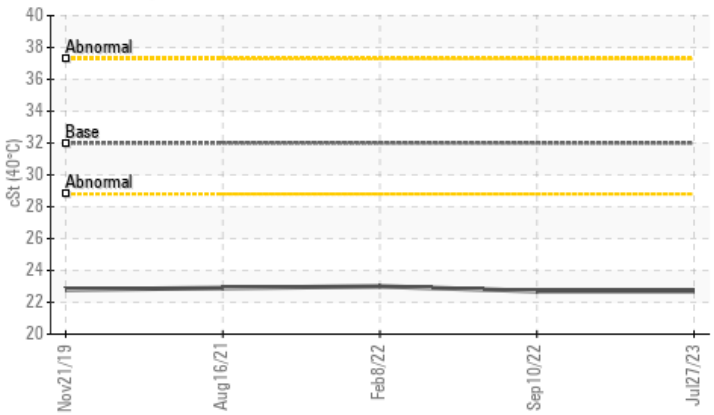


VISCOSITY

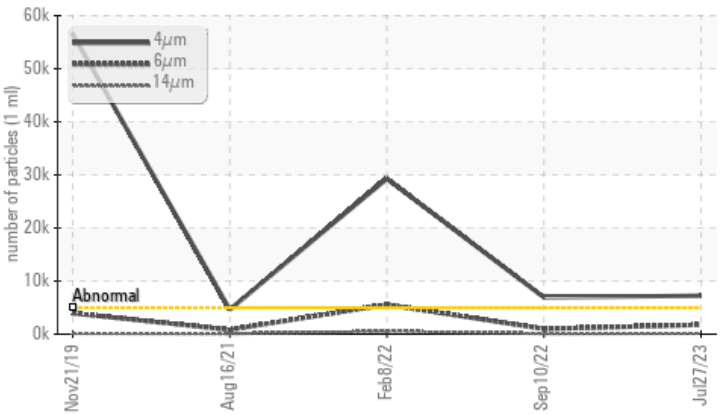
Machine Id
WS55 - WALL BOARD SUPPLY
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 32 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



▲ Particle Trend



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

				ATTENTION	ATTENTION	ABNORMAL
Sample Status				**ATTENTION**	ATTENTION	ABNORMAL
Particles >4µm		ASTM D7647	>5000	▲ **7229**	▲ 6925	▲ 29274
Particles >6µm		ASTM D7647	>1300	▲ **1760**	995	▲ 5562
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **20/18/14**	▲ 20/17/14	▲ 22/20/16
Visc @ 40°C	cSt	ASTM D445	32	▲ **22.7**	▲ 22.7	▲ 23.0

Customer Id: PALJACNJ
Sample No.: WC0747145
Lab Number: 05931467
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +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

10 Sep 2022 Diag: Don Baldridge

VISCOSITY

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 22 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

view report

---

08 Feb 2022 Diag: Don Baldridge

WATER

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. There is a trace of moisture present in the oil. Viscosity of sample indicates oil is within ISO 22 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

view report

---

16 Aug 2021 Diag: Don Baldridge

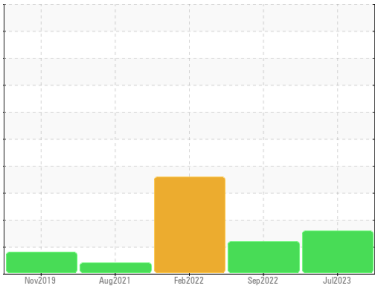
VISCOSITY

Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 22 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
WS55 - WALL BOARD SUPPLY
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 32 (--- 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 moderate amount of silt (particulates < 14 microns in size) present in the oil.

▲ Fluid Condition

Viscosity of sample indicates oil is within ISO 22 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0747145**	WC0723975	WC0648887
Sample Date		Client Info		**27 Jul 2023**	10 Sep 2022	08 Feb 2022
Machine Age	hrs	Client Info		**5660**	5071	4531
Oil Age	hrs	Client Info		**5660**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	N/A
Sample Status				**ATTENTION**	ATTENTION	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**20**	16	11
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>10	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	<1
Aluminum	ppm	ASTM D5185m	>10	**<1**	<1	<1
Lead	ppm	ASTM D5185m	>10	**0**	0	<1
Copper	ppm	ASTM D5185m	>75	**<1**	<1	1
Tin	ppm	ASTM D5185m	>10	**0**	0	0
Antimony	ppm	ASTM D5185m		**---**	---	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	**0**	<1	0
Barium	ppm	ASTM D5185m	5	**0**	0	0
Molybdenum	ppm	ASTM D5185m	5	**0**	<1	0
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m	25	**0**	0	<1
Calcium	ppm	ASTM D5185m	200	**68**	69	68
Phosphorus	ppm	ASTM D5185m	300	**301**	307	322
Zinc	ppm	ASTM D5185m	370	**385**	384	415
Sulfur	ppm	ASTM D5185m	2500	**1189**	1198	973

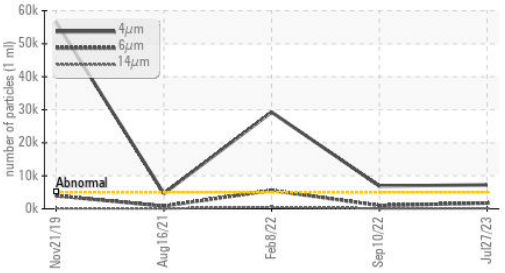
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**2**	<1	1
Sodium	ppm	ASTM D5185m		**2**	1	1
Potassium	ppm	ASTM D5185m	>20	**0**	0	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **7229**	▲ 6925	▲ 29274
Particles >6µm		ASTM D7647	>1300	▲ **1760**	995	▲ 5562
Particles >14µm		ASTM D7647	>160	**135**	90	▲ 533
Particles >21µm		ASTM D7647	>40	**26**	25	▲ 120
Particles >38µm		ASTM D7647	>10	**0**	2	5
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **20/18/14**	▲ 20/17/14	▲ 22/20/16

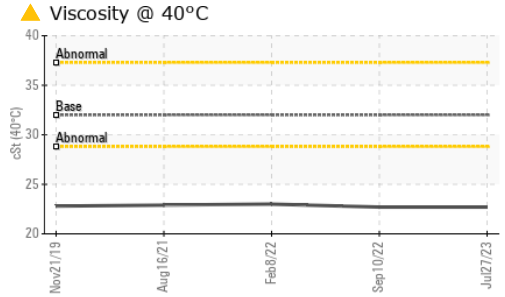
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	**0.31**	0.29	0.26

OIL ANALYSIS REPORT

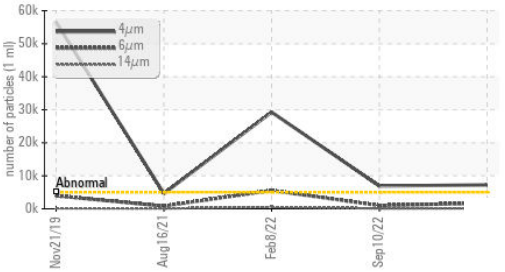
Particle Trend



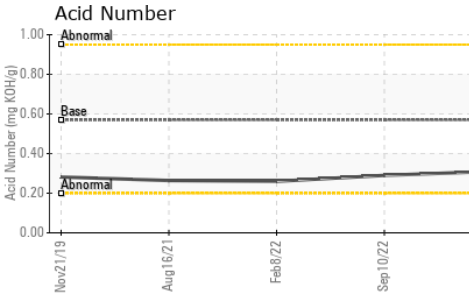
Viscosity @ 40°C



Particle Trend

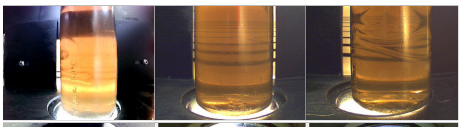
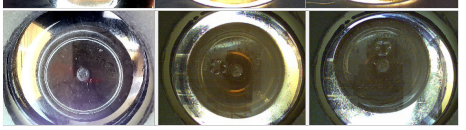


Acid Number



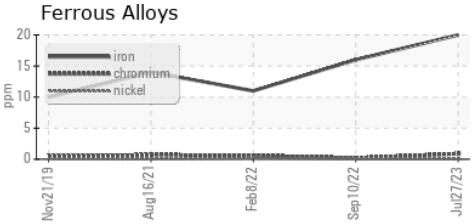
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	▲ 0.2%
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	▲ **22.7**	▲ 22.7	▲ 23.0

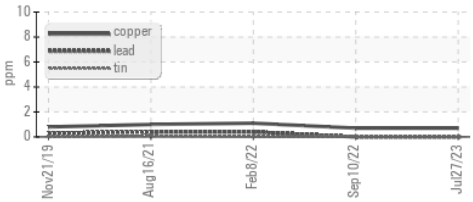
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

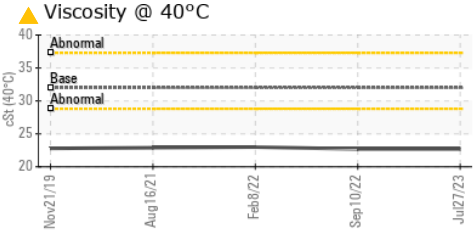
Ferrous Alloys



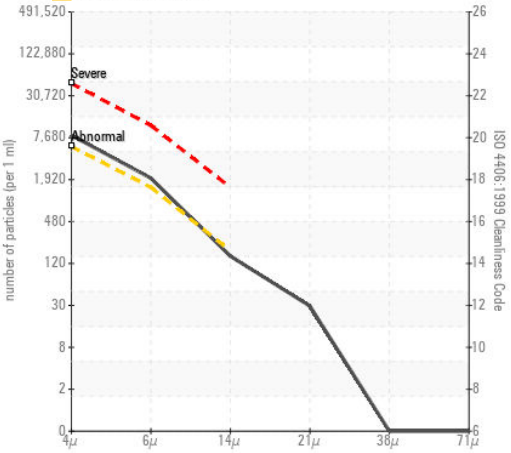
Non-ferrous Metals



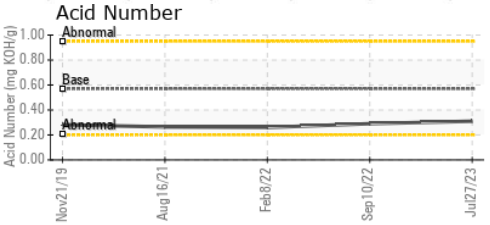
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0747145
Lab Number : 05931467
Unique Number : 10616738
Test Package : CONST

Received : 22 Aug 2023
Diagnosed : 24 Aug 2023
Diagnostician : Don Baldridge

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)

PALFINGER - BRANCH 410
632 CEDAR SWAMP RD
JACKSON, NJ
US 08527
Contact: ANTHONY HARTIGAN
a.hartigan@palfinger.com
T:
F: