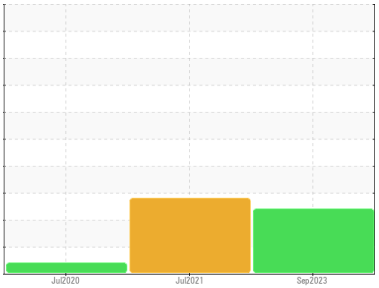
PROBLEM SUMMARY

Sample Rating Trend

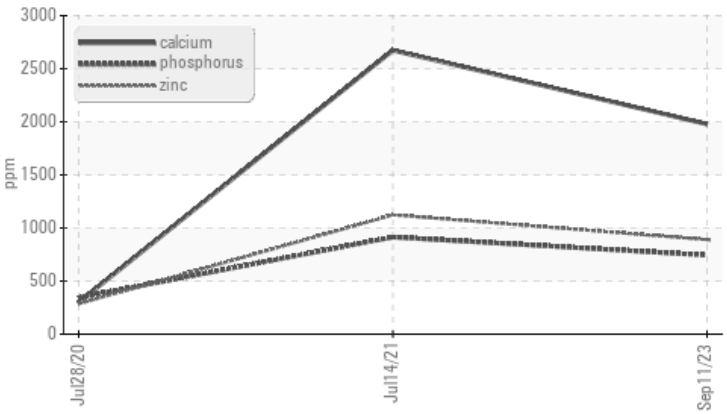


VISCOSITY

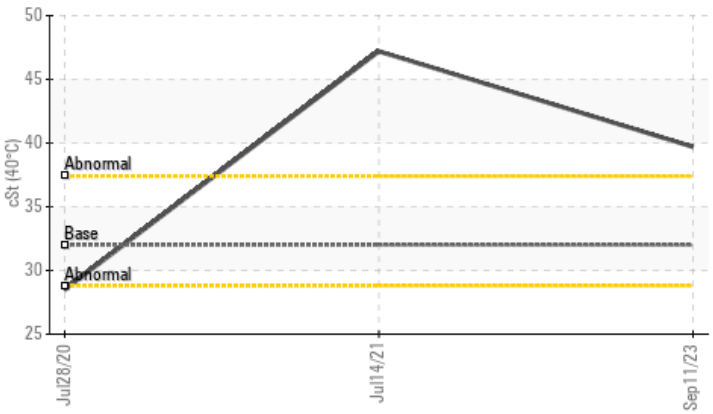
Machine Id
424816 - NYSEG
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 32 (--- GAL)

COMPONENT CONDITION SUMMARY

Additives



Viscosity @ 40°C



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**	ABNORMAL	ABNORMAL
Boron	ppm	ASTM D5185m	5	▲ **73**	▲ 99	8
Calcium	ppm	ASTM D5185m	200	▲ **1978**	▲ 2674	300
Phosphorus	ppm	ASTM D5185m	300	▲ **744**	▲ 914	343
Zinc	ppm	ASTM D5185m	370	▲ **890**	▲ 1123	285
Sulfur	ppm	ASTM D5185m	2500	▲ **4815**	▲ 5253	2339
Visc @ 40°C	cSt	ASTM D445	32	▲ **39.7**	▲ 47.2	28.5

Customer Id: PALJACNJ
Sample No.: WC0839988
Lab Number: 05961729
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

14 Jul 2021 Diag: Jonathan Hester

VISCOSITY

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. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

view report

28 Jul 2020 Diag: Doug Bogart

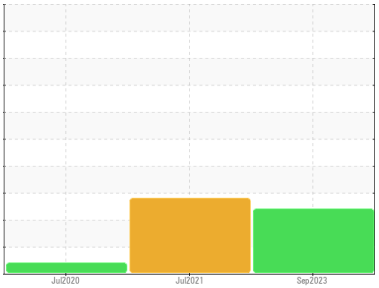
ISO

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.All component wear rates are normal. There is a high 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



VISCOSITY

Machine Id
424816 - NYSEG
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
The amount and size of particulates present in the system are acceptable.

▲ Fluid Condition
Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 46 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		**WC0839988**	WC0555100	WC0443372
Sample Date		Client Info		**11 Sep 2023**	14 Jul 2021	28 Jul 2020
Machine Age	yrs	Client Info		**0**	0	0
Oil Age	yrs	Client Info		**0**	0	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	**5**	3	8
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>10	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**0**	<1	<1
Aluminum	ppm	ASTM D5185m	>10	**3**	<1	<1
Lead	ppm	ASTM D5185m	>10	**<1**	<1	<1
Copper	ppm	ASTM D5185m	>75	**1**	<1	2
Tin	ppm	ASTM D5185m	>10	**<1**	<1	0
Antimony	ppm	ASTM D5185m		**---**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	<1	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	▲ **73**	▲ 99	8
Barium	ppm	ASTM D5185m	5	**0**	0	<1
Molybdenum	ppm	ASTM D5185m	5	**<1**	1	<1
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	25	**14**	16	5
Calcium	ppm	ASTM D5185m	200	▲ **1978**	▲ 2674	300
Phosphorus	ppm	ASTM D5185m	300	▲ **744**	▲ 914	343
Zinc	ppm	ASTM D5185m	370	▲ **890**	▲ 1123	285
Sulfur	ppm	ASTM D5185m	2500	▲ **4815**	▲ 5253	2339

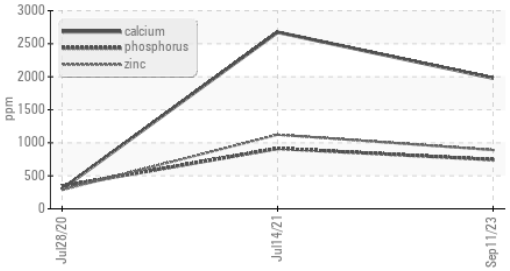
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**8**	8	3
Sodium	ppm	ASTM D5185m		**4**	4	3
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**3174**	▲ 7389	▲ 15046
Particles >6µm		ASTM D7647	>1300	**354**	403	1208
Particles >14µm		ASTM D7647	>160	**23**	20	109
Particles >21µm		ASTM D7647	>40	**5**	6	26
Particles >38µm		ASTM D7647	>10	**0**	0	2
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**19/16/12**	▲ 20/16/11	▲ 21/17/14

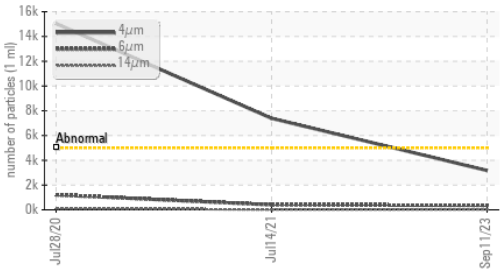
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	**0.81**	0.869	0.423

OIL ANALYSIS REPORT

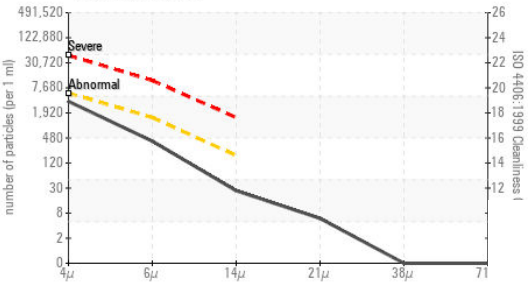
Additives



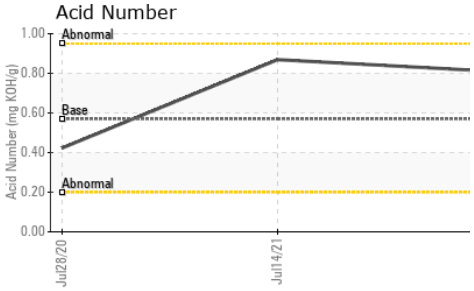
Particle Trend



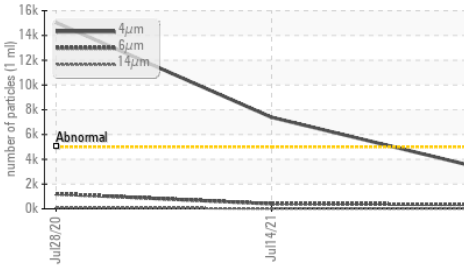
Particle Count



Acid Number



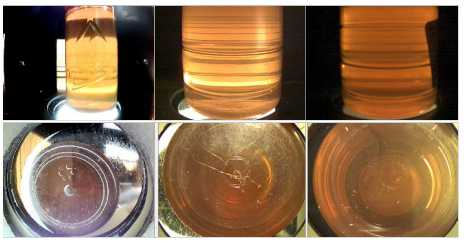
Particle Trend



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	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

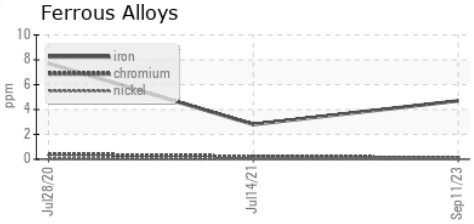
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	▲ **39.7**	▲ 47.2	28.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

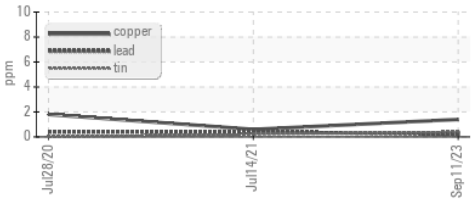


GRAPHS

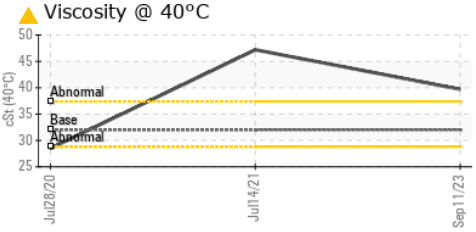
Ferrous Alloys



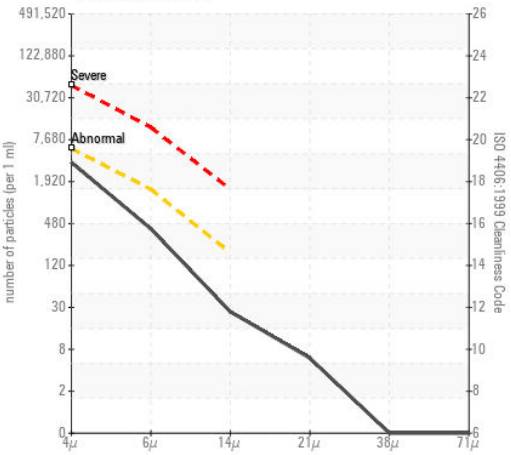
Non-ferrous Metals



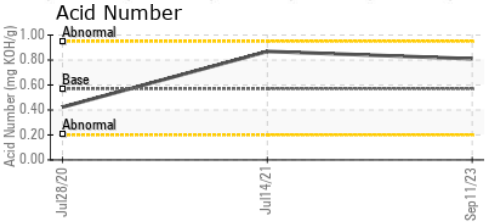
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0839988
Lab Number : 05961729
Unique Number : 10662942
Test Package : CONST

Received : 26 Sep 2023
Diagnosed : 28 Sep 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)

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