PROBLEM SUMMARY

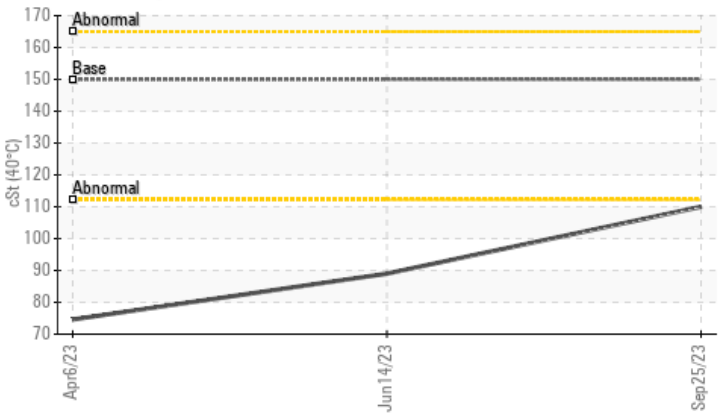
Sample Rating Trend

VISCOSITY

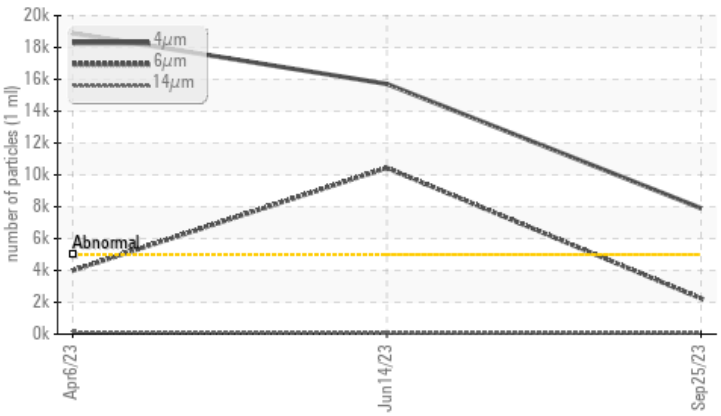
Area
UPPER SHOP
Machine Id
550 TON PRESS
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 150 (400 GAL)

COMPONENT CONDITION SUMMARY

Viscosity @ 40°C



Particle Trend



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ATTENTION**	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>5000	**7908**	15713	18894
Particles >6µm		ASTM D7647	>1300	**2246**	10439	3995
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**20/18/13**	21/21/13	21/19/14
Visc @ 40°C	cSt	ASTM D445	150	**110**	89.0	74.6

Customer Id: PRETULOKL
Sample No.: USP05966371
Lab Number: 05966371
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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 Jun 2023 Diag: Doug Bogart

VISCOSITY

Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.

view report

06 Apr 2023 Diag: Doug Bogart

VISCOSITY

Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Area
UPPER SHOP
Machine Id
550 TON PRESS
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 150 (400 GAL)

DIAGNOSIS

Recommendation
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
The oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USP05966371**	USP248746	USP248742
Sample Date		Client Info		**25 Sep 2023**	14 Jun 2023	06 Apr 2023
Machine Age	wks	Client Info		**0**	0	0
Oil Age	wks	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	Not Changd	Changed
Sample Status				**ATTENTION**	ABNORMAL	ABNORMAL

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

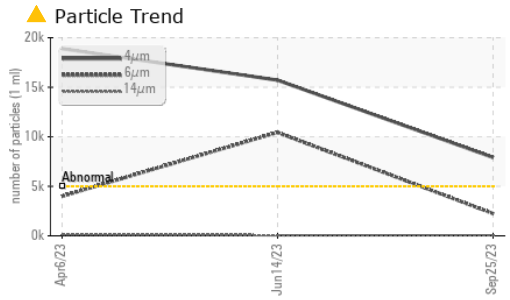
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	**0**	0	0
Barium	ppm	ASTM D5185m	5	**0**	2	0
Molybdenum	ppm	ASTM D5185m	5	**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m	25	**57**	97	88
Calcium	ppm	ASTM D5185m	200	**67**	78	70
Phosphorus	ppm	ASTM D5185m	300	**345**	352	321
Zinc	ppm	ASTM D5185m	370	**427**	442	391
Sulfur	ppm	ASTM D5185m	2500	**1770**	2108	1653

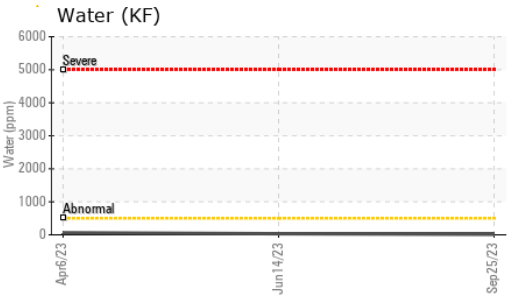
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**<1**	<1	<1
Sodium	ppm	ASTM D5185m		**0**	0	2
Potassium	ppm	ASTM D5185m	>20	**0**	<1	<1
Water	%	ASTM D6304	>0.05	**0.002**	0.003	0.006
ppm Water	ppm	ASTM D6304	>500	**15.4**	33.2	62.5

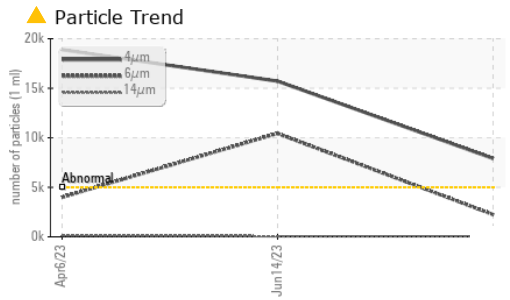
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **7908**	▲ 15713	▲ 18894
Particles >6µm		ASTM D7647	>1300	▲ **2246**	▲ 10439	▲ 3995
Particles >14µm		ASTM D7647	>160	**58**	49	144
Particles >21µm		ASTM D7647	>40	**11**	4	21
Particles >38µm		ASTM D7647	>10	**1**	0	1
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **20/18/13**	▲ 21/21/13	▲ 21/19/14

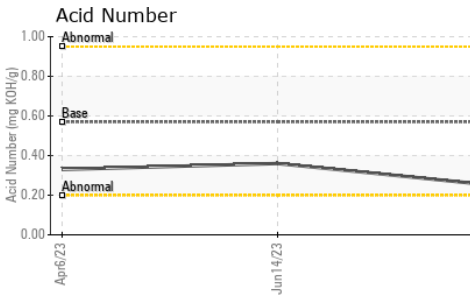
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	**0.25**	0.36	0.33

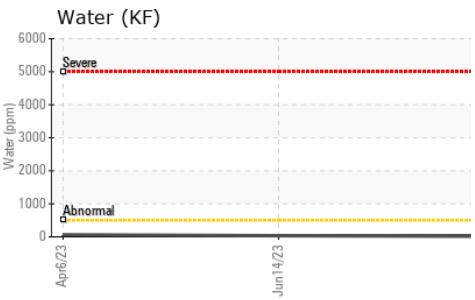
OIL ANALYSIS REPORT





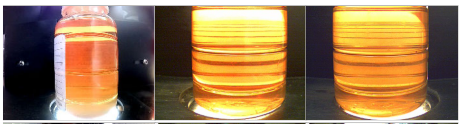




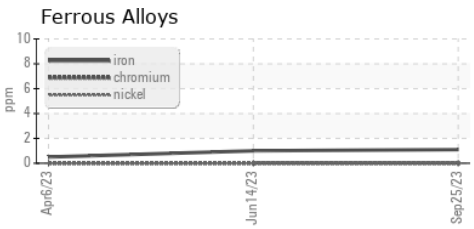


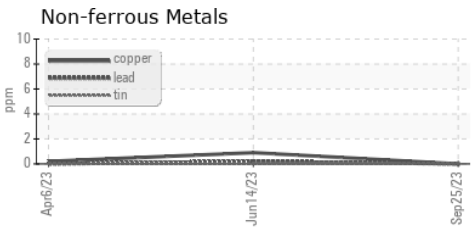
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

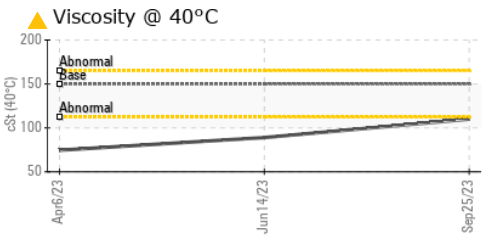
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	▲ **110**	▲ 89.0	▲ 74.6

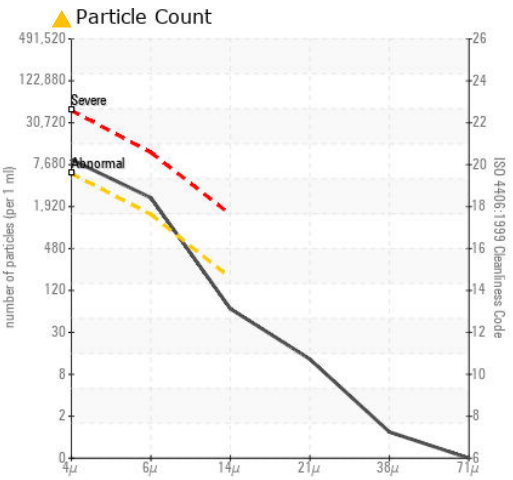
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

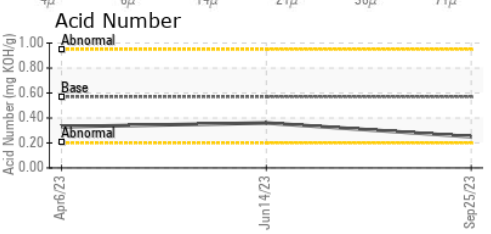
GRAPHS











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP05966371
Lab Number : 05966371
Unique Number : 10672922
Test Package : IND 2

Received : 02 Oct 2023
Diagnosed : 03 Oct 2023
Diagnostician : Doug Bogart

Certificate L2367

PRESCOR
8601 STATE HWY 66
TULSA, OK
US 74131
Contact: KRIS BROWN

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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