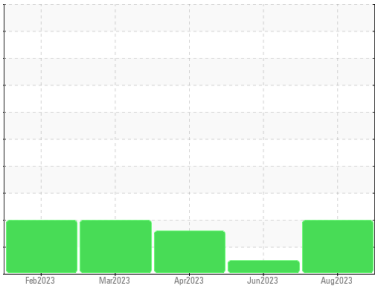
PROBLEM SUMMARY

Sample Rating Trend

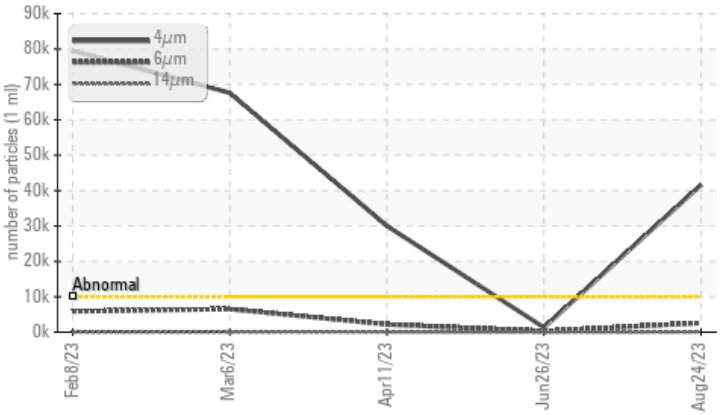


WEAR

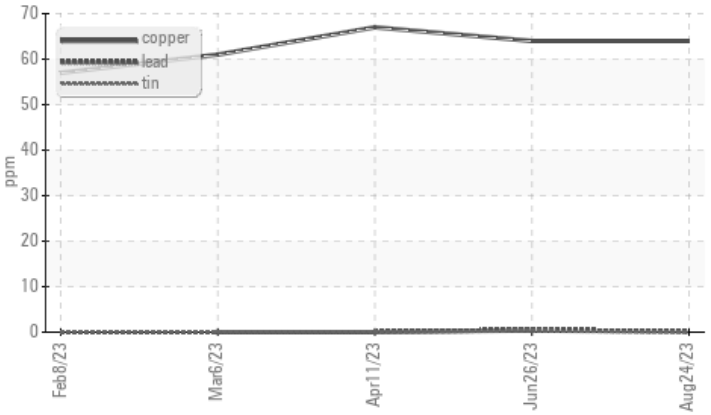
Machine Id
TS03-07
Component
Hydraulic System
Fluid
DURA CLEAN 942125 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Non-ferrous Metals



RECOMMENDATION

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	ABNORMAL
Copper	ppm	ASTM D5185m	>20	▲ **64**	▲ 64	▲ 67
Particles >4µm		ASTM D7647	>10000	▲ **41619**	1331	▲ 30028
Particles >6µm		ASTM D7647	>2500	▲ **2606**	287	2187
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **23/19/12**	18/15/11	▲ 22/18/12
PrtFilter						*no image*

Customer Id: PARLITGA
Sample No.: PH0000361
Lab Number: 05938259
Test Package: PLANT

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

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

26 Jun 2023 Diag: Doug Bogart

UNKNOWN

No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level is abnormal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

11 Apr 2023 Diag: Jonathan Hester

WEAR

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.The copper level is abnormal. All other 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

06 Mar 2023 Diag: Don Baldridge

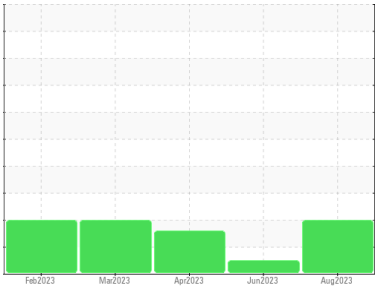
WEAR

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.The copper level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 14 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



WEAR

Machine Id
TS03-07
Component
Hydraulic System
Fluid
DURA CLEAN 942125 (--- GAL)

DIAGNOSIS

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PH0000361**	PH0000364	PH0000362
Sample Date		Client Info		**24 Aug 2023**	26 Jun 2023	11 Apr 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	---	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**<1**	0	0
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**<1**	0	0
Lead	ppm	ASTM D5185m	>20	**<1**	<1	0
Copper	ppm	ASTM D5185m	>20	▲ **64**	▲ 64	▲ 67
Tin	ppm	ASTM D5185m	>20	**0**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

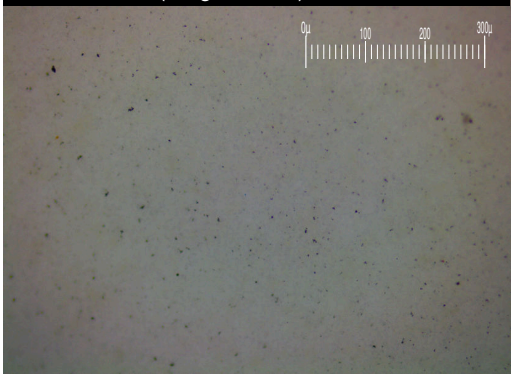
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**2**	<1	0
Molybdenum	ppm	ASTM D5185m		**0**	1	0
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m		**0**	15	<1
Calcium	ppm	ASTM D5185m		**22**	30	18
Phosphorus	ppm	ASTM D5185m		**421**	432	453
Zinc	ppm	ASTM D5185m		**598**	568	626
Sulfur	ppm	ASTM D5185m		**1319**	1305	1116

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**3**	5	8
Sodium	ppm	ASTM D5185m		**0**	4	3
Potassium	ppm	ASTM D5185m	>20	**2**	2	2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **41619**	1331	▲ 30028
Particles >6µm		ASTM D7647	>2500	▲ **2606**	287	2187
Particles >14µm		ASTM D7647	>320	**32**	11	33
Particles >21µm		ASTM D7647	>80	**9**	3	8
Particles >38µm		ASTM D7647	>20	**0**	0	0
Particles >71µm		ASTM D7647	>4	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **23/19/12**	18/15/11	▲ 22/18/12

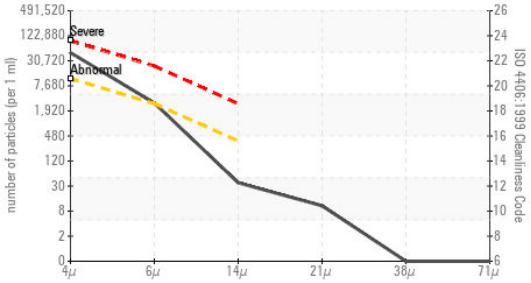
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.59**	0.57	0.58

Particle Filter (Magn: 200 x)

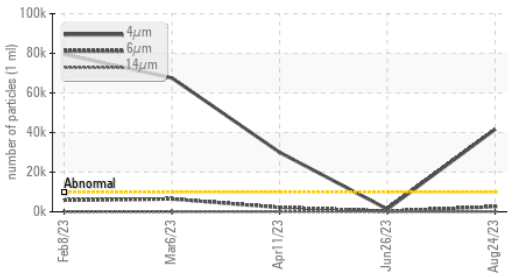


OIL ANALYSIS REPORT

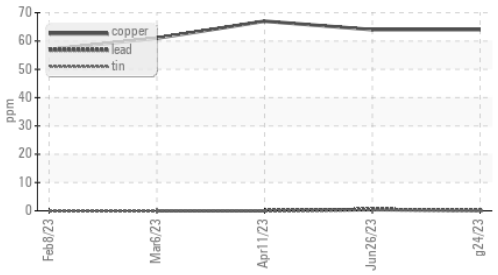
Particle Count



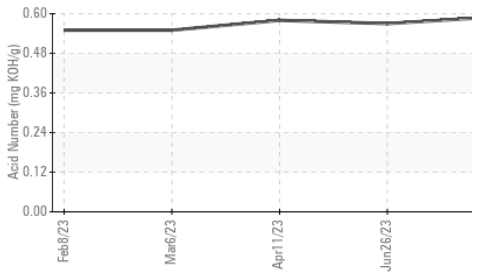
Particle Trend



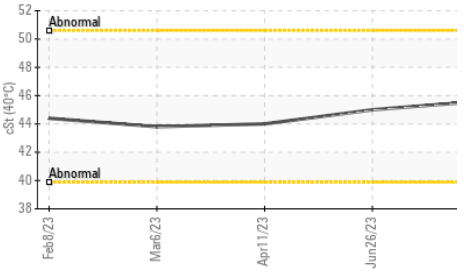
Non-ferrous Metals



Acid Number

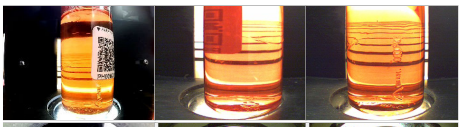
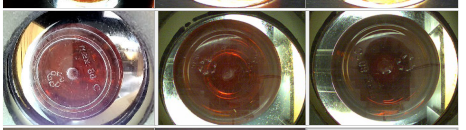


Viscosity @ 40°C



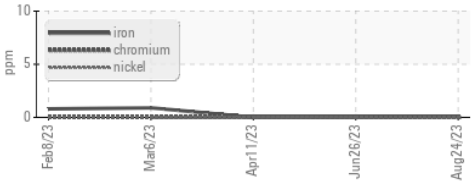
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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		**45.6**	45.0	44.0

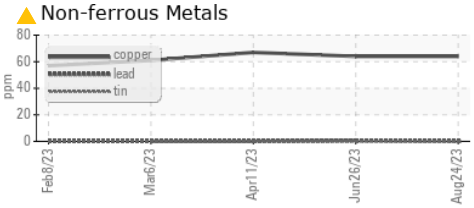
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter					

GRAPHS

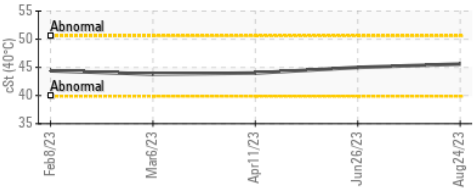
Ferrous Alloys



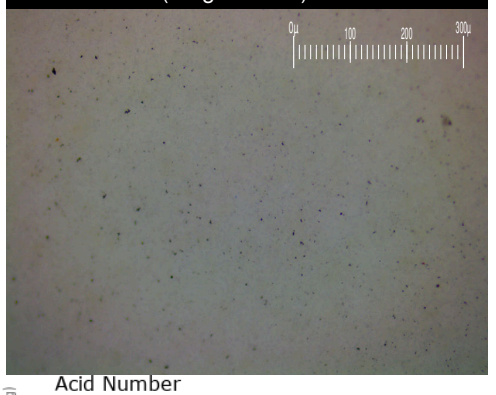
Non-ferrous Metals



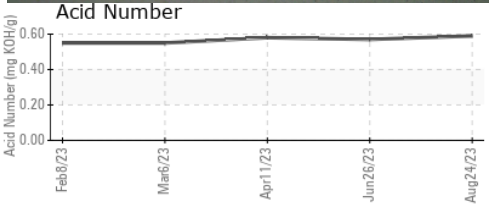
Viscosity @ 40°C



Particle Filter (Magn: 200 x)



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0000361 **Received** : 30 Aug 2023
Lab Number : 05938259 **Diagnosed** : 08 Sep 2023
Unique Number : 10628871 **Diagnostician** : Doug Bogart
Test Package : PLANT (Additional Tests: PrtFilter)

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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