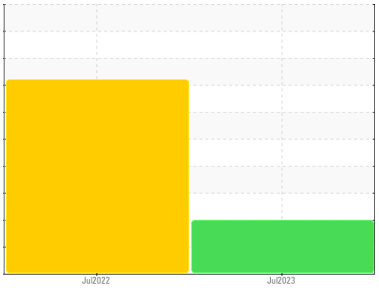
OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Area
PLOGER
Machine Id
6182 - PLOGER
Component
Transmission
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation
We recommend that you drain the fluid and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear
All component wear rates are normal.

Contamination
There is a moderate amount of visible silt present in the sample.

Fluid Condition
The AN level is above the recommended limit. The fluid is no longer serviceable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0843160**	WC0728478	---
Sample Date		Client Info		**05 Jul 2023**	30 Jul 2022	---
Machine Age	mls	Client Info		**619766**	494290	---
Oil Age	mls	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**ABNORMAL**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**99**	69	---
Chromium	ppm	ASTM D5185m	>10	**2**	1	---
Nickel	ppm	ASTM D5185m		**<1**	3	---
Titanium	ppm	ASTM D5185m		**<1**	<1	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>50	**30**	▲ 29	---
Lead	ppm	ASTM D5185m	>50	**0**	<1	---
Copper	ppm	ASTM D5185m	>200	**47**	35	---
Tin	ppm	ASTM D5185m	>10	**<1**	<1	---
Vanadium	ppm	ASTM D5185m		**0**	<1	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

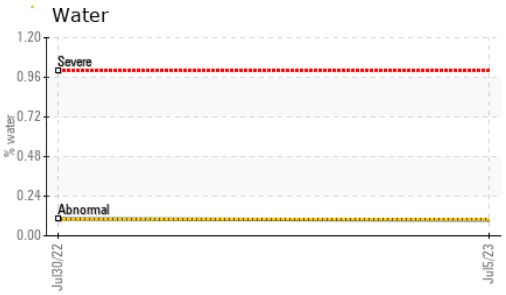
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**139**	189	---
Barium	ppm	ASTM D5185m		**0**	2	---
Molybdenum	ppm	ASTM D5185m		**1**	4	---
Manganese	ppm	ASTM D5185m		**25**	21	---
Magnesium	ppm	ASTM D5185m		**0**	3	---
Calcium	ppm	ASTM D5185m		**193**	235	---
Phosphorus	ppm	ASTM D5185m		**1321**	1337	---
Zinc	ppm	ASTM D5185m		**9**	18	---
Sulfur	ppm	ASTM D5185m		**1115**	1275	---

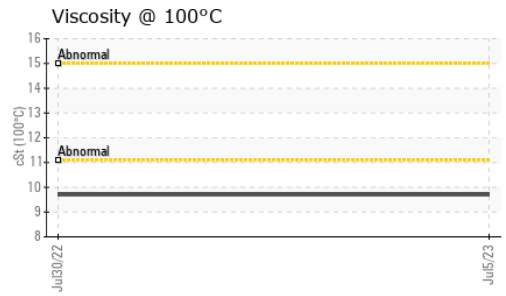
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**20**	▲ 74	---
Sodium	ppm	ASTM D5185m		**3**	4	---
Potassium	ppm	ASTM D5185m	>20	**<1**	2	---
Water	%	ASTM D6304	>0.1	**0.096**	▲ 0.102	---
ppm Water	ppm	ASTM D6304	>1000	**968.9**	▲ 1023.7	---

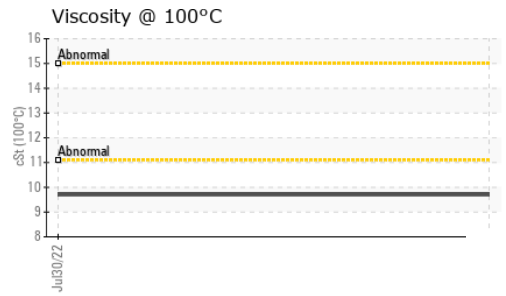
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**---**	▲ 249210	---
Particles >6µm		ASTM D7647	>2500	**---**	▲ 28456	---
Particles >14µm		ASTM D7647	>320	**---**	▲ 699	---
Particles >21µm		ASTM D7647	>80	**---**	66	---
Particles >38µm		ASTM D7647	>20	**---**	0	---
Particles >71µm		ASTM D7647	>4	**---**	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	**---**	▲ 25/22/17	---

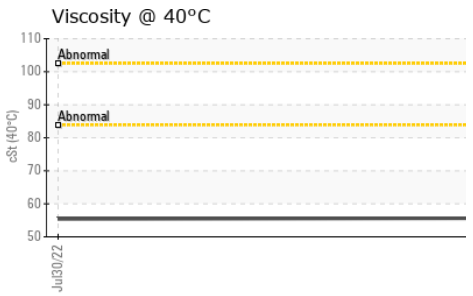
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ **5.01**	▲ 4.69	---

OIL ANALYSIS REPORT



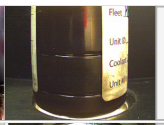
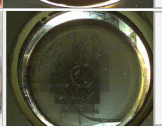




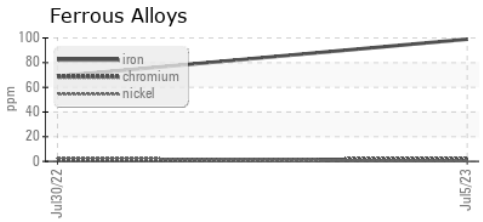


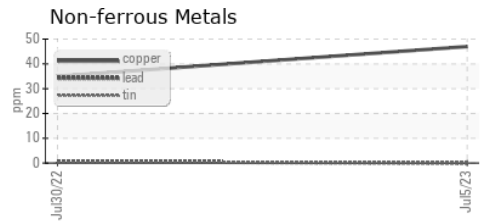
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt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

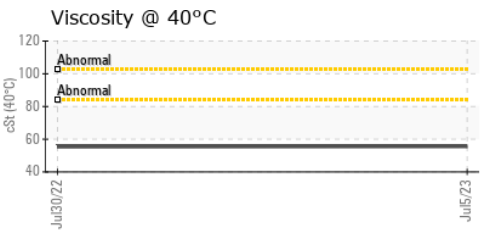
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**55.6**	▲ 55.4	---
Visc @ 100°C	cSt	ASTM D445		**9.7**	9.7	---
Viscosity Index (VI)	Scale	ASTM D2270		**160**	161	---

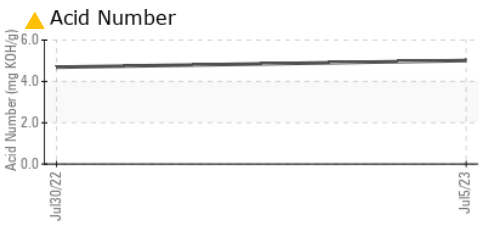
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0843160 **Received** : 22 Aug 2023
Lab Number : 05931525 **Diagnosed** : 24 Aug 2023
Unique Number : 10616796 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

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)

BASF - GIANNA CREDAROLI
500 WHITE PLAINS RD
TARRYTOWN, NY
US 10591
Contact: GIANNA CREDAROLI
gianna.credaroli@basf.com
T:
F: