

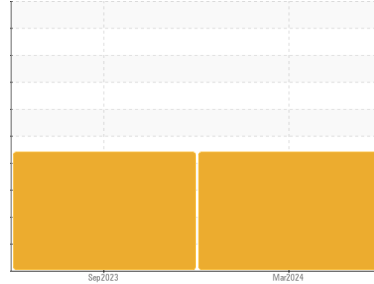
OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area
TA Machines
 Machine Id
Sany SY215 SY021MBJ31178 CA300
 Component
Swing Drive
 Fluid
CITGO PREMIUM GEAR 80W90 (--- GAL)



DIAGNOSIS

- Recommendation**
We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.
- Wear**
Gear wear is indicated.
- Contamination**
There is a high concentration of water present in the oil.
- Fluid Condition**
The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0115495	LW0007364	---
Sample Date	Client Info		28 Mar 2024	29 Sep 2023	---
Machine Age	hrs	Client Info	1695	1470	---
Oil Age	hrs	Client Info	1695	1470	---
Oil Changed	Client Info		Not Chngd	Not Chngd	---
Sample Status			SEVERE	SEVERE	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >400	▲ 480	▲ 411	---
Chromium	ppm	ASTM D5185m >10	6	6	---
Nickel	ppm	ASTM D5185m >10	<1	<1	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	1	5	---
Lead	ppm	ASTM D5185m >50	0	0	---
Copper	ppm	ASTM D5185m >200	21	22	---
Tin	ppm	ASTM D5185m >10	<1	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	<1	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<1	3	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	0	<1	---
Manganese	ppm	ASTM D5185m	8	7	---
Magnesium	ppm	ASTM D5185m	<1	4	---
Calcium	ppm	ASTM D5185m	32	27	---
Phosphorus	ppm	ASTM D5185m	320	299	---
Zinc	ppm	ASTM D5185m	32	41	---
Sulfur	ppm	ASTM D5185m	31453	28762	---

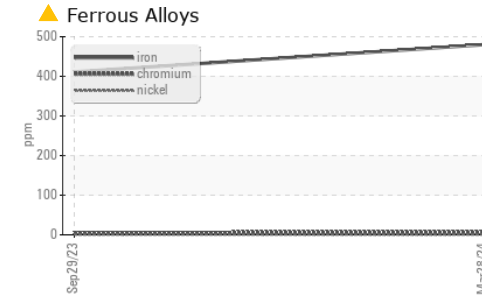
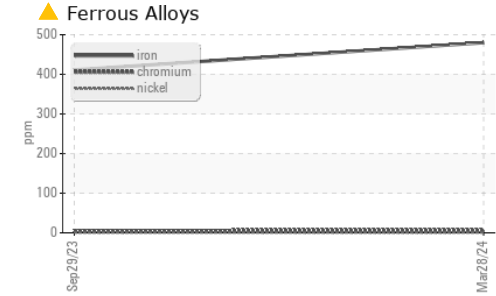
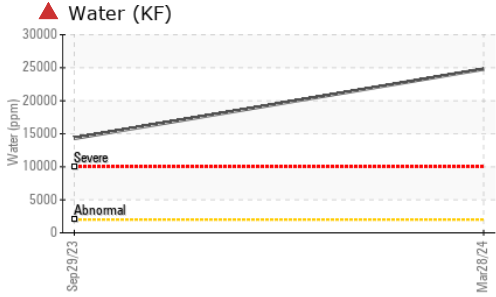
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	14	13	---
Sodium	ppm	ASTM D5185m	0	<1	---
Potassium	ppm	ASTM D5185m >20	0	<1	---
Water	%	ASTM D6304 >0.2	▲ 2.48	▲ 1.43	---
ppm Water	ppm	ASTM D6304 >2000	▲ 24800	▲ 14300	---

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	NONE	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 >0.2	▲ 0.2%	▲ 0.2%	---
Free Water	scalar	*Visual	NEG	NEG	---

OIL ANALYSIS REPORT



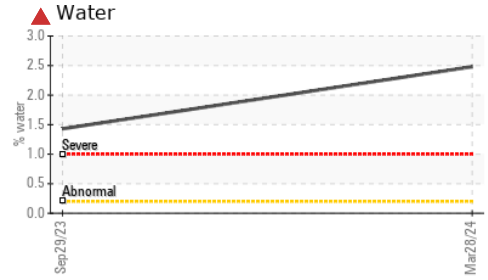
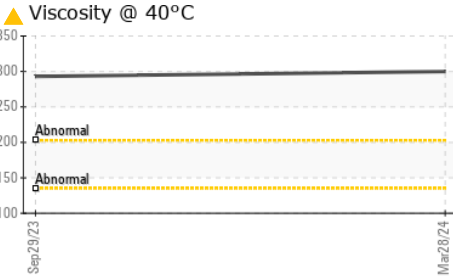
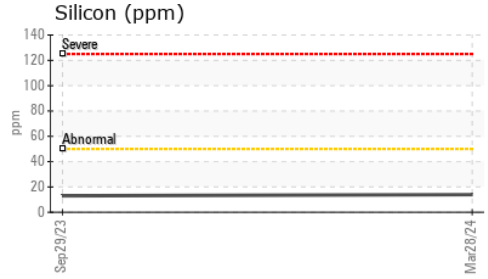
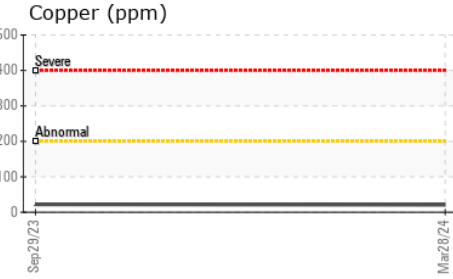
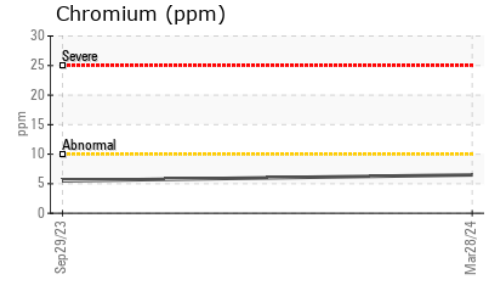
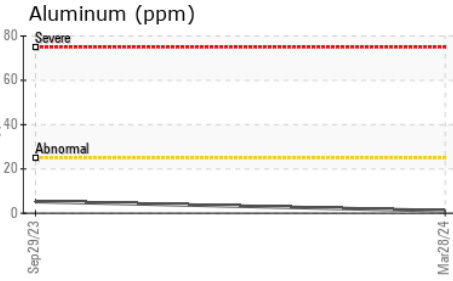
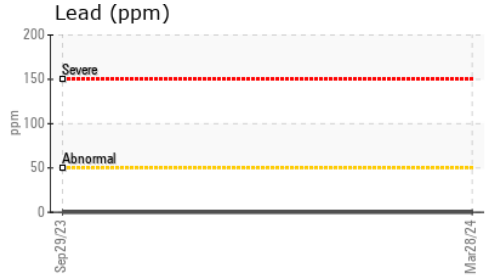
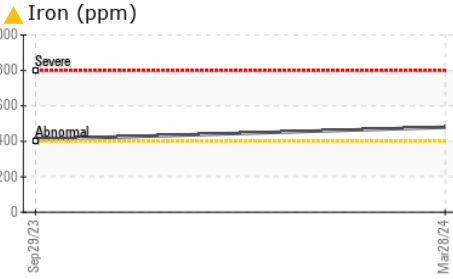
FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	▲ 300	▲ 293	---

SAMPLE IMAGES

	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0115495 **Received** : 02 Apr 2024
Lab Number : 06136681 **Tested** : 03 Apr 2024
Unique Number : 10956146 **Diagnosed** : 04 Apr 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: KF)

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 LYNWOOD, IL
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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)