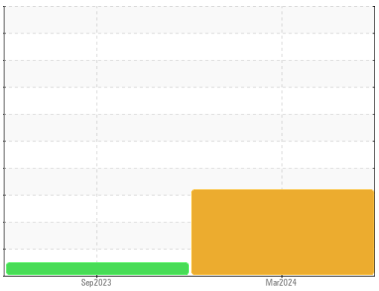
OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

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

DIAGNOSIS

Recommendation
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Wear
Gear wear is indicated. All other metal levels are typical for a new component breaking in.

Contamination
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0115494**	LW0007363	---
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 Changd**	Not Changd	---
Sample Status				**ABNORMAL**	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	▲ **698**	376	---
Chromium	ppm	ASTM D5185m	>10	**8**	4	---
Nickel	ppm	ASTM D5185m	>10	**0**	0	---
Titanium	ppm	ASTM D5185m		**1**	<1	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	● **17**	0	---
Lead	ppm	ASTM D5185m	>25	**0**	0	---
Copper	ppm	ASTM D5185m	>50	**3**	3	---
Tin	ppm	ASTM D5185m	>10	**0**	0	---
Vanadium	ppm	ASTM D5185m		**<1**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**45**	27	---
Barium	ppm	ASTM D5185m		**20**	13	---
Molybdenum	ppm	ASTM D5185m		**0**	0	---
Manganese	ppm	ASTM D5185m		**11**	6	---
Magnesium	ppm	ASTM D5185m		**14**	6	---
Calcium	ppm	ASTM D5185m		**48**	19	---
Phosphorus	ppm	ASTM D5185m		**554**	484	---
Zinc	ppm	ASTM D5185m		**32**	35	---
Sulfur	ppm	ASTM D5185m		**20979**	18140	---

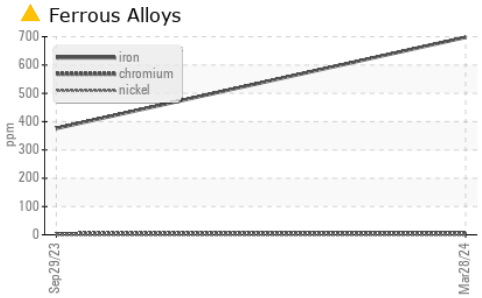
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **128**	33	---
Sodium	ppm	ASTM D5185m		**18**	9	---
Potassium	ppm	ASTM D5185m	>20	**7**	3	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**MODER**	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	>0.2	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

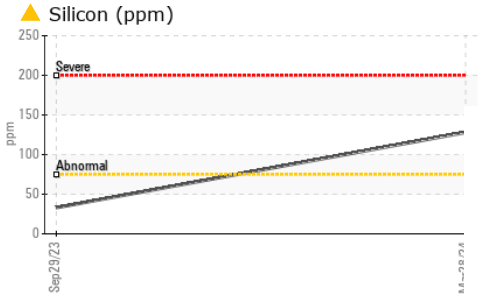
OIL DIAGNOSTICS

OIL ANALYSIS REPORT

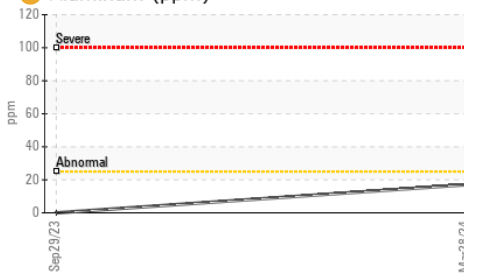
Ferrous Alloys



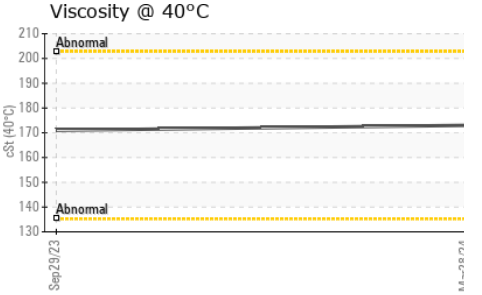
Silicon (ppm)



Aluminum (ppm)



Viscosity @ 40°C

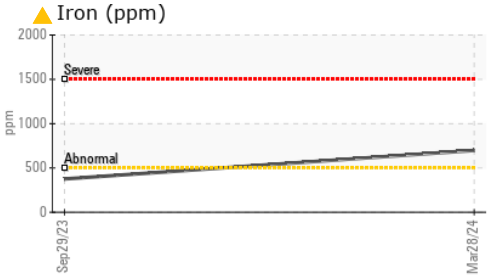


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**173**	171	---

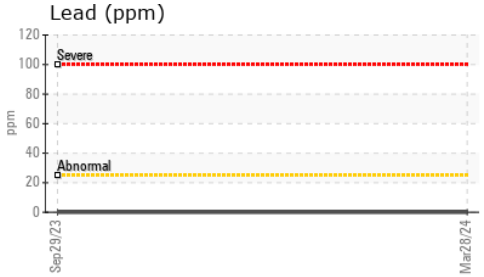
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

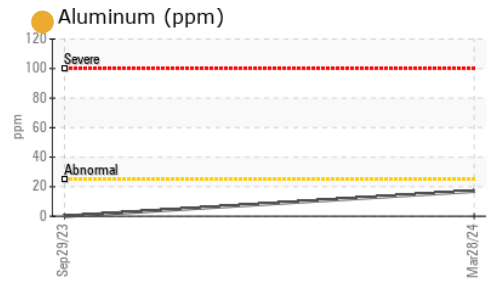
Iron (ppm)



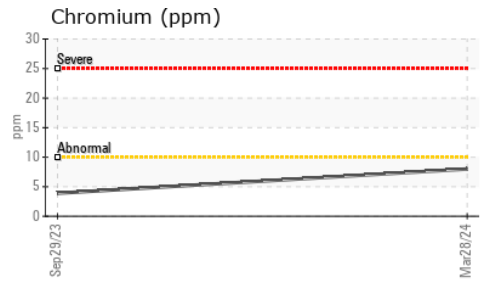
Lead (ppm)



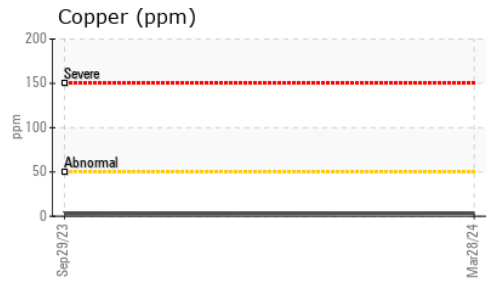
Aluminum (ppm)



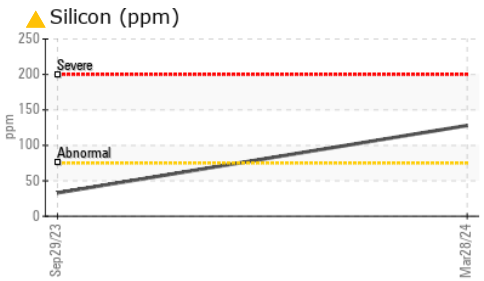
Chromium (ppm)



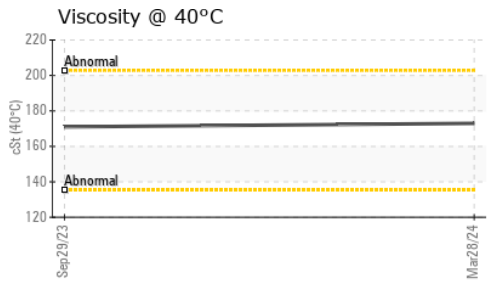
Copper (ppm)



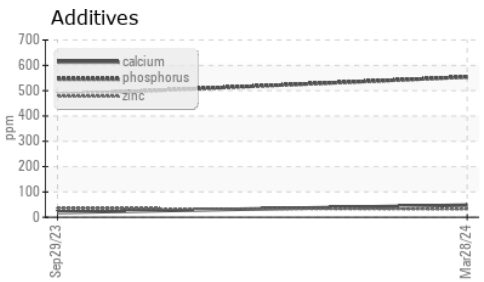
Silicon (ppm)



Viscosity @ 40°C



Additives



ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0115494
Lab Number : 06136679
Unique Number : 10956144
Test Package : MOB 1

Received : 02 Apr 2024
Tested : 03 Apr 2024
Diagnosed : 04 Apr 2024 - 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)

CHICAGO MACHINERY INC
3142 EAST LINCOLN
LYNWOOD, IL
US 60411-7728
Contact: Mike Korbelik
mike@chicagomachineryinc.com
T: (708)758-2060
F: