

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
GMI Services
 Machine Id
TB 4 SW4054CC09058
 Component
Rear Axle
 Fluid
CITGO PREMIUM GEAR 80W90 (--- GAL)



DIAGNOSIS

- Recommendation**
No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**
Bearing and/or bushing wear is indicated.
- Contamination**
There is no indication of any contamination in the oil.
- 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	PCA0115485	LW0008255	---
Sample Date	Client Info	27 Mar 2024	19 Dec 2023	---
Machine Age	hrs	1040	455	---
Oil Age	hrs	1040	455	---
Oil Changed	Client Info	Not Chngd	Not Chngd	---
Sample Status		ABNORMAL	ABNORMAL	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >500	403	361	---
Chromium	ppm	ASTM D5185m >10	3	2	---
Nickel	ppm	ASTM D5185m >10	<1	0	---
Titanium	ppm	ASTM D5185m	<1	<1	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	1	<1	---
Lead	ppm	ASTM D5185m >25	0	0	---
Copper	ppm	ASTM D5185m >50	▲ 317	▲ 206	---
Tin	ppm	ASTM D5185m >10	▲ 24	▲ 18	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	5	---
Barium	ppm	ASTM D5185m	0	6	---
Molybdenum	ppm	ASTM D5185m	0	0	---
Manganese	ppm	ASTM D5185m	17	17	---
Magnesium	ppm	ASTM D5185m	0	4	---
Calcium	ppm	ASTM D5185m	4	20	---
Phosphorus	ppm	ASTM D5185m	1948	1892	---
Zinc	ppm	ASTM D5185m	8	26	---
Sulfur	ppm	ASTM D5185m	43327	37247	---

CONTAMINANTS

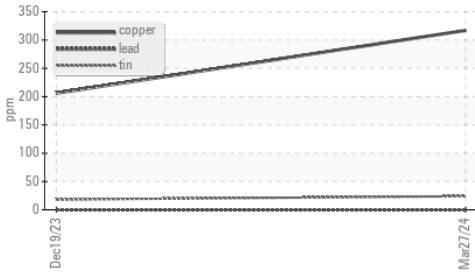
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >75	3	3	---
Sodium	ppm	ASTM D5185m	2	2	---
Potassium	ppm	ASTM D5185m >20	0	1	---
Water	%	ASTM D6304 >0.2	0.095	0.096	---
ppm Water	ppm	ASTM D6304 >2000	950	960	---

VISUAL

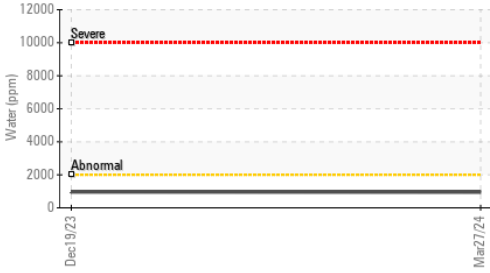
method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual NONE	NONE	NONE	---
Precipitate	scalar	*Visual NONE	NONE	NONE	---
Silt	scalar	*Visual NONE	NONE	NONE	---
Debris	scalar	*Visual NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	---
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

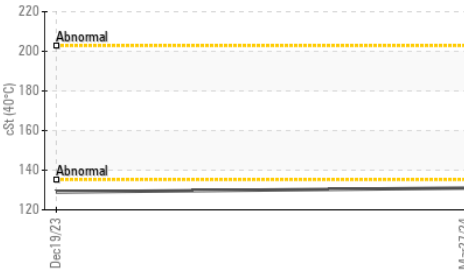
▲ Non-ferrous Metals



Water (KF)



Viscosity @ 40°C



FLUID PROPERTIES

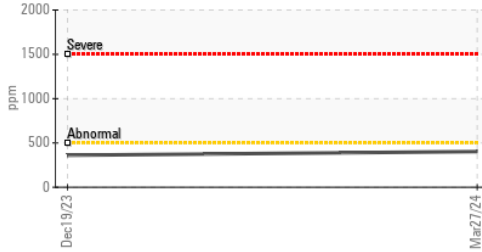
method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	131	129	---

SAMPLE IMAGES

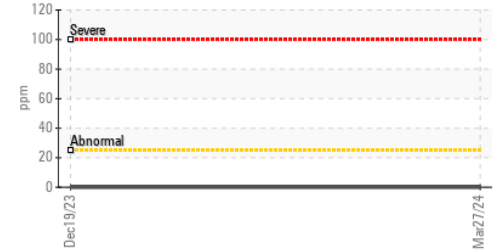
method	limit/base	current	history1	history2
Color		no image	no image	no image
Bottom		no image	no image	no image

GRAPHS

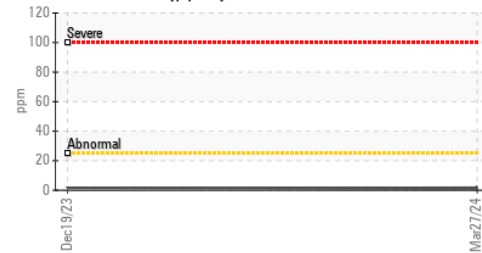
Iron (ppm)



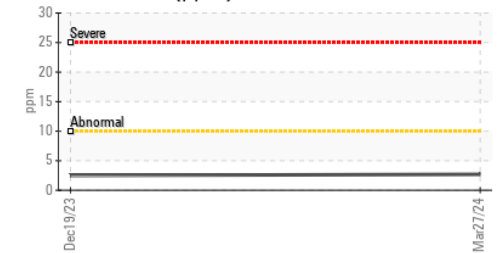
Lead (ppm)



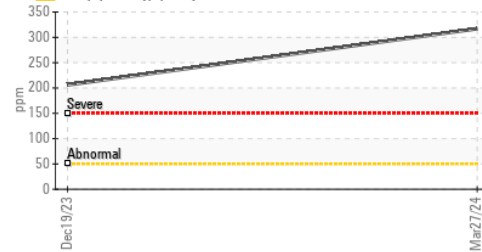
Aluminum (ppm)



Chromium (ppm)



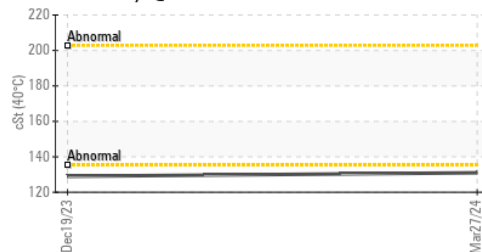
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0115485 **Received** : 02 Apr 2024
Lab Number : 06136691 **Tested** : 03 Apr 2024
Unique Number : 10956156 **Diagnosed** : 04 Apr 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: KF)

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

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)