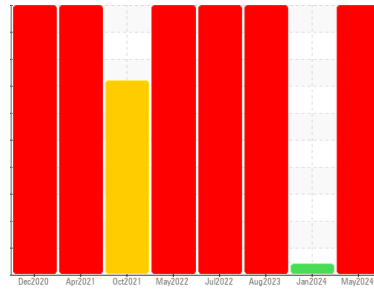


# OIL ANALYSIS REPORT

Area  
**TA Machines**  
 Machine Id  
**Sany SY365 TA745 (S/N SY036MBG80888)**  
 Component  
**Left Final Drive**  
 Fluid  
**CITGO PREMIUM GEAR 80W90 (--- GAL)**

Sample Rating Trend



## DIAGNOSIS

**Recommendation**  
 We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

**Wear**  
 Gear wear is indicated.

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

**Fluid Condition**  
 The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0115563</b>	LW0008281	LW0007321
Sample Date	Client Info	<b>20 May 2024</b>	16 Jan 2024	31 Aug 2023
Machine Age	hrs	<b>4681</b>	4415	4133
Oil Age	hrs	<b>4681</b>	4415	4133
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status		<b>SEVERE</b>	ATTENTION	SEVERE

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >500	<b>▲ 1798</b>	296	▲ 2233
Chromium	ppm ASTM D5185m >10	<b>▲ 22</b>	4	▲ 34
Nickel	ppm ASTM D5185m >10	<b>1</b>	0	<1
Titanium	ppm ASTM D5185m	<b>5</b>	<1	6
Silver	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Aluminum	ppm ASTM D5185m >25	<b>● 54</b>	3	● 76
Lead	ppm ASTM D5185m >25	<b>&lt;1</b>	0	0
Copper	ppm ASTM D5185m >50	<b>5</b>	2	5
Tin	ppm ASTM D5185m >10	<b>0</b>	0	<1
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	0	<1
Cadmium	ppm ASTM D5185m	<b>&lt;1</b>	0	<1

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>38</b>	8	6
Barium	ppm ASTM D5185m	<b>&lt;1</b>	<1	4
Molybdenum	ppm ASTM D5185m	<b>1</b>	2	0
Manganese	ppm ASTM D5185m	<b>15</b>	3	19
Magnesium	ppm ASTM D5185m	<b>35</b>	4	33
Calcium	ppm ASTM D5185m	<b>78</b>	21	77
Phosphorus	ppm ASTM D5185m	<b>497</b>	583	206
Zinc	ppm ASTM D5185m	<b>9</b>	0	12
Sulfur	ppm ASTM D5185m	<b>20005</b>	19960	17404

## CONTAMINANTS

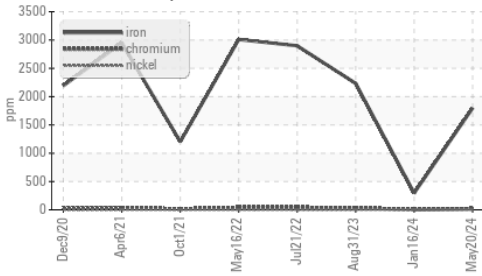
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >75	<b>▲ 353</b>	26	▲ 385
Sodium	ppm ASTM D5185m	<b>14</b>	0	28
Potassium	ppm ASTM D5185m >20	<b>20</b>	3	21

## VISUAL

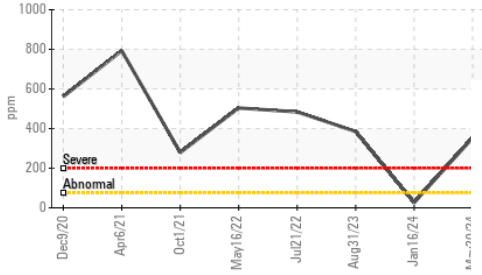
method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar *Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar *Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar *Visual NONE	<b>NONE</b>	MODER	NONE
Debris	scalar *Visual NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar *Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar *Visual NORML	<b>NORML</b>	NORML	NORML
Odor	scalar *Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar *Visual >0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar *Visual	<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

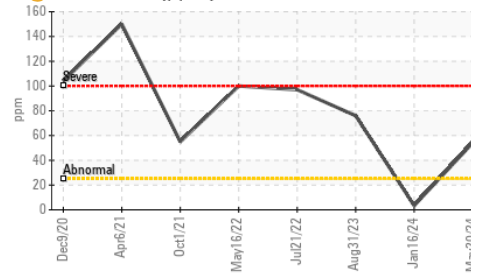
## ▲ Ferrous Alloys



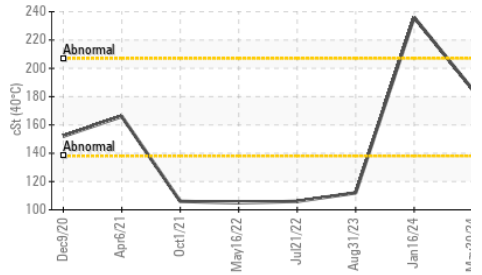
## ▲ Silicon (ppm)



## ● Aluminum (ppm)



## Viscosity @ 40°C



## FLUID PROPERTIES

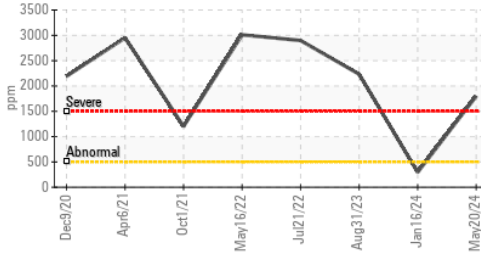
method limit/base current history1 history2  
 Visc @ 40°C cSt ASTM D445 185 236 112

## SAMPLE IMAGES

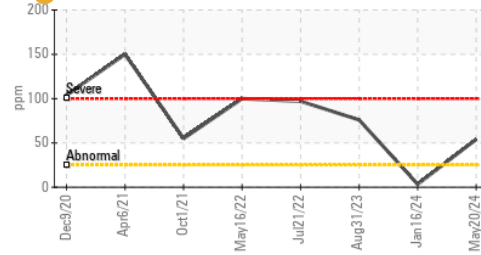
method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

## GRAPHS

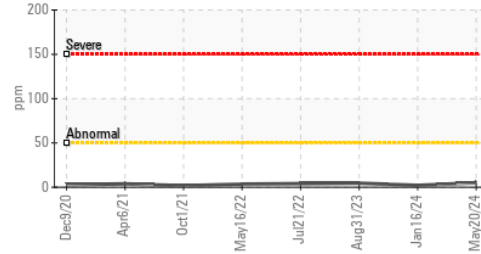
### ▲ Iron (ppm)



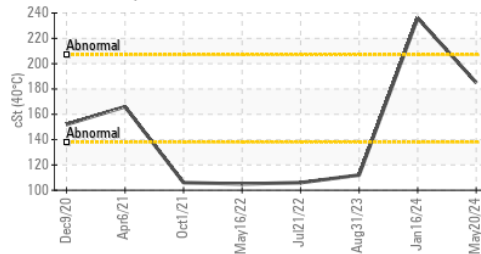
### ● Aluminum (ppm)



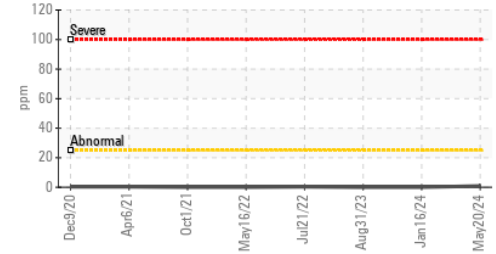
### Copper (ppm)



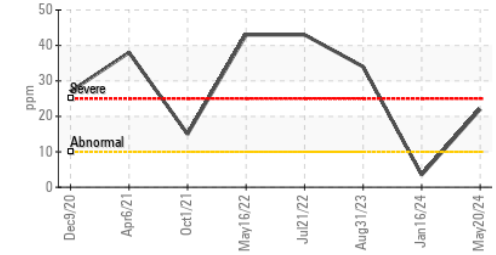
### Viscosity @ 40°C



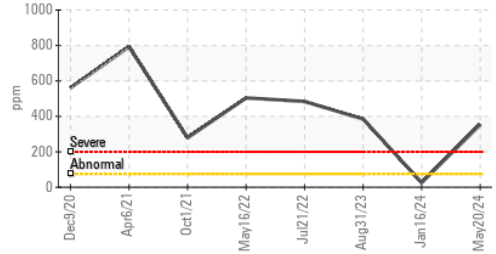
### Lead (ppm)



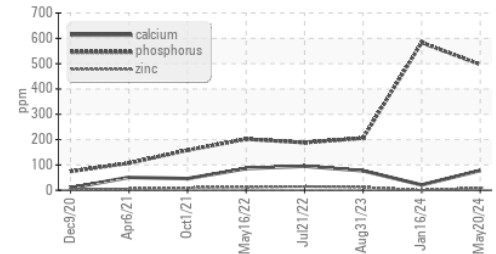
### ▲ Chromium (ppm)



### ▲ Silicon (ppm)



### Additives



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0115563 **Received** : 23 May 2024  
**Lab Number** : 06189584 **Tested** : 25 May 2024  
**Unique Number** : 11046336 **Diagnosed** : 28 May 2024 - Sean Felton  
**Test Package** : MOB 1

**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)