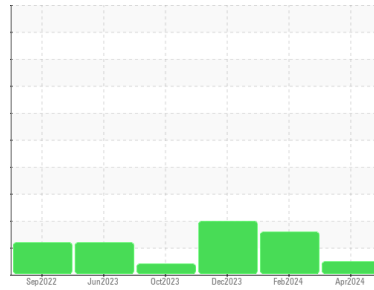


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Nickelson**  
 Machine Id  
**Sany SY365 SY036MCB00618 Nickelson**  
 Component  
**Left Final Drive**  
 Fluid  
**CITGO PREMIUM GEAR 80W90 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### 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			<b>PCA0115503</b>	LW0008312	LW0008243
Sample Date	Client Info			<b>04 Apr 2024</b>	28 Feb 2024	19 Dec 2023
Machine Age	hrs	Client Info		<b>2845</b>	2576	2158
Oil Age	hrs	Client Info		<b>2845</b>	2576	2158
Oil Changed	Client Info			<b>Not Changed</b>	Not Changd	Not Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

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

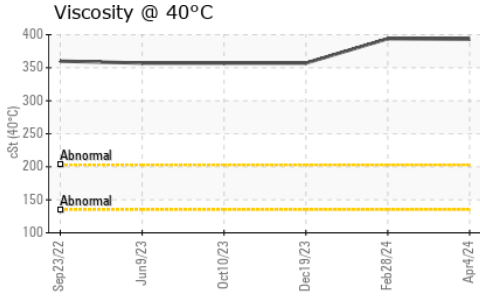
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>297</b>	278	297
Chromium	ppm	ASTM D5185m	>10	<b>8</b>	4	7
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>2</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>23</b>	9	6
Lead	ppm	ASTM D5185m	>25	<b>1</b>	3	0
Copper	ppm	ASTM D5185m	>50	<b>4</b>	2	1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>57</b>	49	4
Barium	ppm	ASTM D5185m		<b>5</b>	3	9
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>5</b>	3	5
Magnesium	ppm	ASTM D5185m		<b>9</b>	2	3
Calcium	ppm	ASTM D5185m		<b>52</b>	22	28
Phosphorus	ppm	ASTM D5185m		<b>900</b>	796	539
Zinc	ppm	ASTM D5185m		<b>34</b>	12	40
Sulfur	ppm	ASTM D5185m		<b>24916</b>	19365	17202

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>45</b>	22	16
Sodium	ppm	ASTM D5185m		<b>12</b>	7	14
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	<1	2

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	▲ HEAVY	MODER
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>	NONE	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	0.2%
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

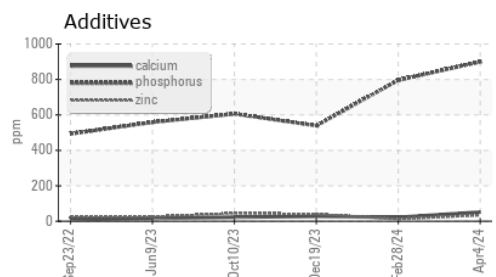
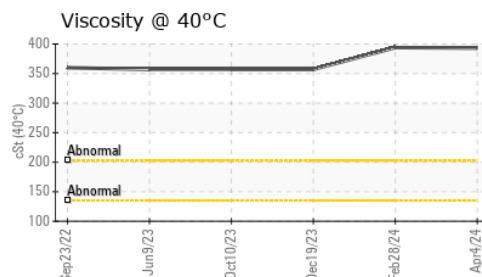
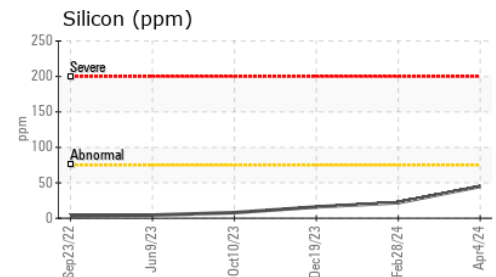
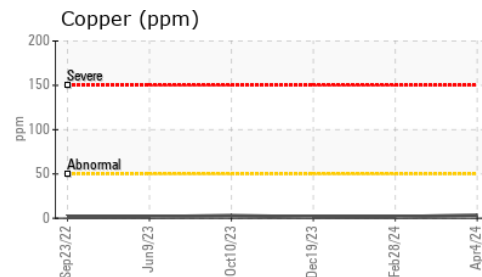
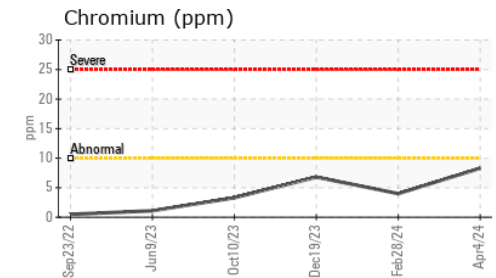
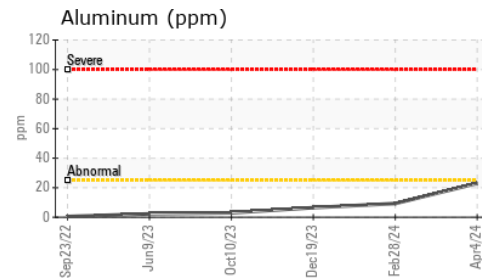
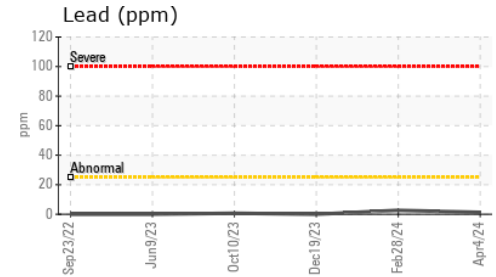
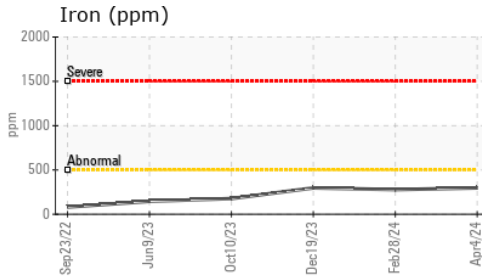


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		<b>393</b>	394	357

SAMPLE IMAGES		method	limit/base	current	history1	history2
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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.** : PCA0115503  
**Lab Number** : **06143404**  
**Unique Number** : 10968212  
**Test Package** : MOB 1

**Received** : 09 Apr 2024  
**Tested** : 10 Apr 2024  
**Diagnosed** : 12 Apr 2024 - Jonathan Hester

**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)