



**LEAHY-WOLF**  
Lubricating specialists since 1946

OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**Nickelson**

Machine Id

**Sany SY365 SY036MCB00618 Nickelson**

Component

**Left Final Drive**

Fluid

**CITGO PREMIUM GEAR 80W90 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LW0009113</b>	PCA0115567	PCA0115503
Sample Date		Client Info		<b>02 Jul 2024</b>	20 May 2024	04 Apr 2024
Machine Age	hrs	Client Info		<b>3443</b>	3112	2845
Oil Age	hrs	Client Info		<b>3443</b>	3112	2845
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>265</b>	203	297
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	3	8
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	5	23
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	1
Copper	ppm	ASTM D5185m	>50	<b>2</b>	2	4
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>MODER</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

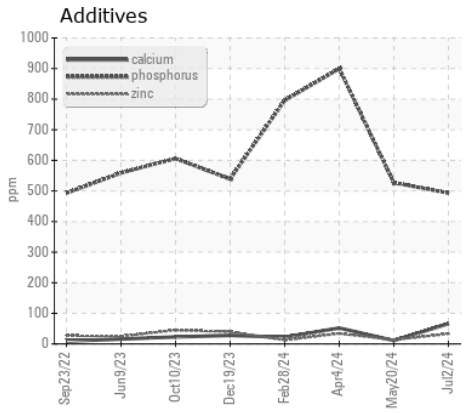
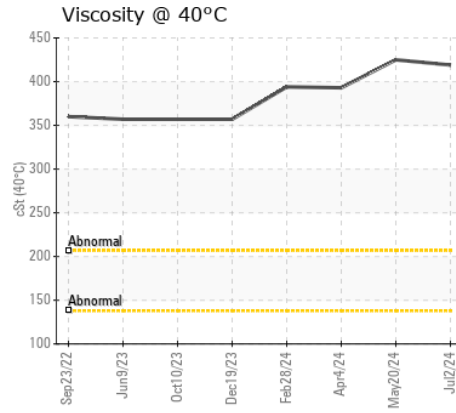
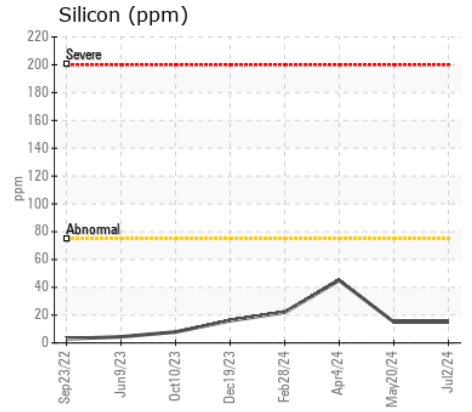
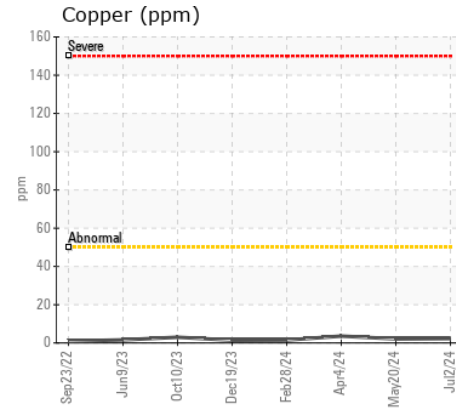
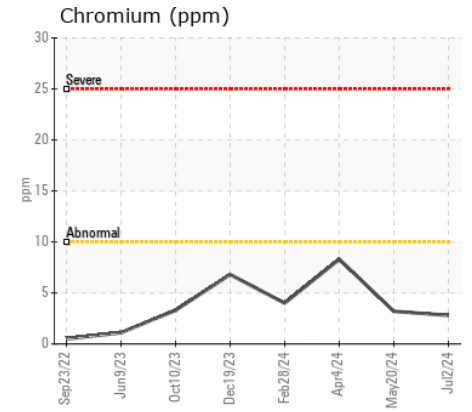
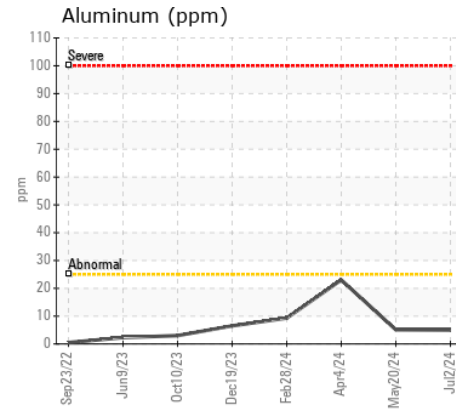
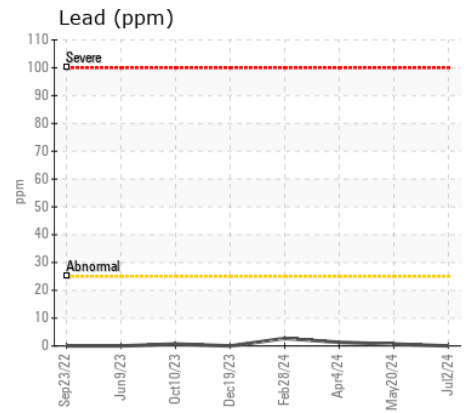
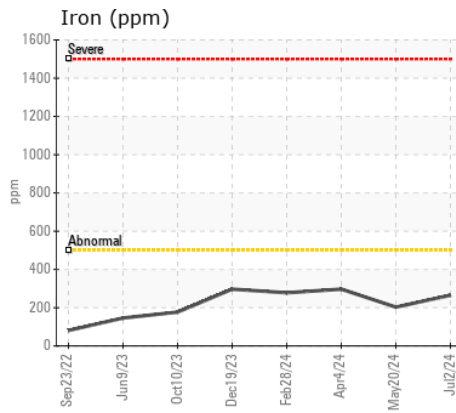
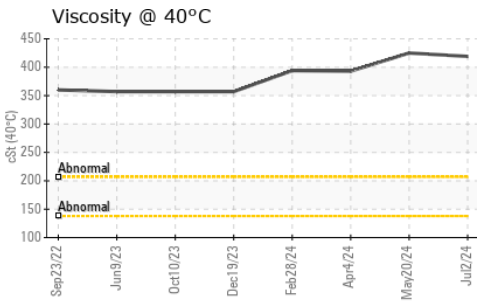
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>15</b>	15	45
Potassium	ppm	ASTM D5185m	>20	<b>12</b>	2	5
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
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	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>4</b>	2	12
Boron	ppm	ASTM D5185m		<b>37</b>	35	57
Barium	ppm	ASTM D5185m		<b>0</b>	<1	5
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>4</b>	3	5
Magnesium	ppm	ASTM D5185m		<b>5</b>	4	9
Calcium	ppm	ASTM D5185m		<b>66</b>	11	52
Phosphorus	ppm	ASTM D5185m		<b>493</b>	527	900
Zinc	ppm	ASTM D5185m		<b>33</b>	13	34
Sulfur	ppm	ASTM D5185m		<b>23158</b>	28747	24916
Visc @ 40°C	cSt	ASTM D445		<b>419</b>	425	393



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LW0009113  
**Lab Number** : 06238220  
**Unique Number** : 11127054  
**Test Package** : MOB 1

**Received** : 16 Jul 2024  
**Tested** : 17 Jul 2024  
**Diagnosed** : 18 Jul 2024 - Sean Felton

**CHICAGO MACHINERY INC**  
 3142 EAST LINCOLN  
 LYNWOOD, IL  
 US 60411-7728  
 Contact: Mike Korbelik  
 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)