



**LEAHY-WOLF**  
Lubricating specialists since 1946

OIL ANALYSIS REPORT

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

Area

**TA Machines**

Machine Id

**SANY SY500 TA946 (S/N SY0503BK00528)**

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>LW0009083</b>	LW0008322	LW0007590
Sample Date		Client Info		<b>05 Jun 2024</b>	28 Feb 2024	10 Oct 2023
Machine Age	hrs	Client Info		<b>2398</b>	2148	1672
Oil Age	hrs	Client Info		<b>2398</b>	2148	1672
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>ATTENTION</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>31</b>	176	119
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	4	3
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	5	5
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	2	<1
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

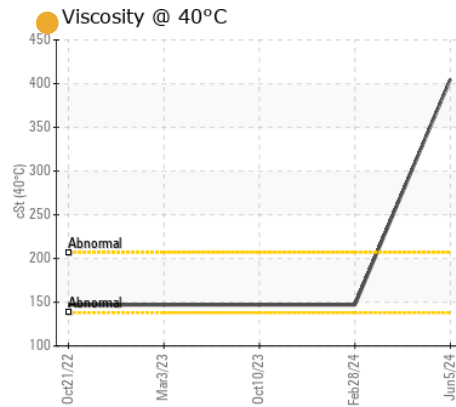
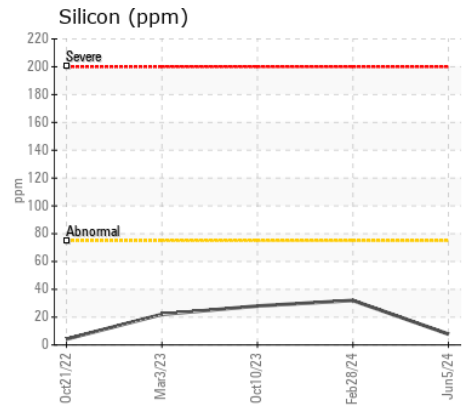
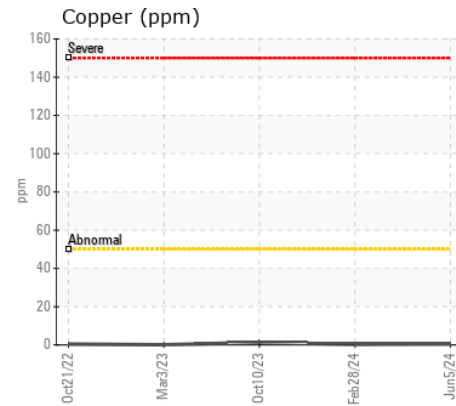
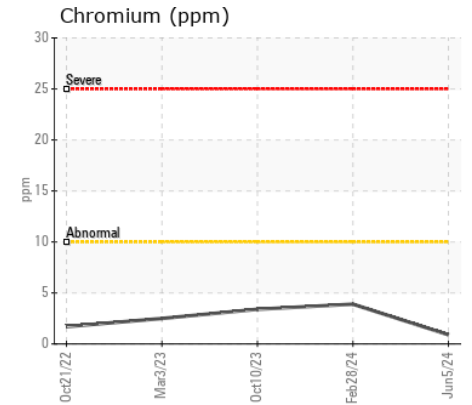
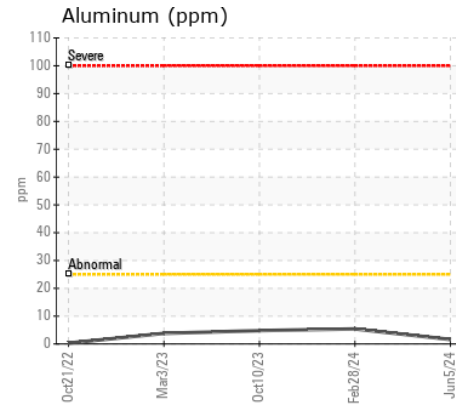
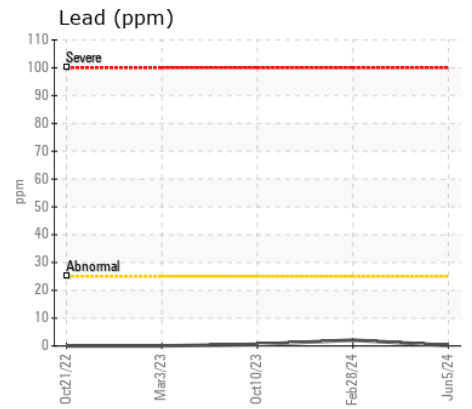
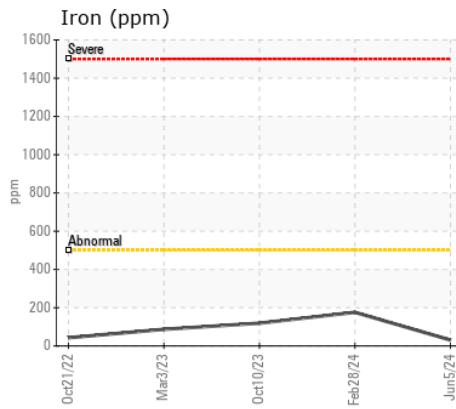
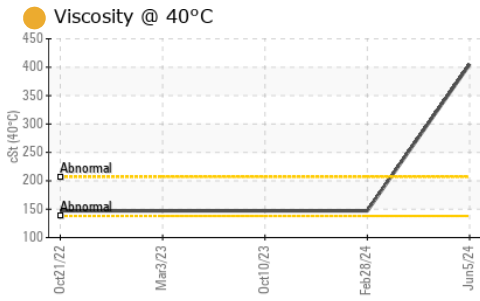
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>8</b>	32	28
Potassium	ppm	ASTM D5185m	>20	<b>1</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	LIGHT
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 oil viscosity is higher than normal. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	2
Boron	ppm	ASTM D5185m		<b>102</b>	154	146
Barium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	3	3
Magnesium	ppm	ASTM D5185m		<b>2</b>	4	6
Calcium	ppm	ASTM D5185m		<b>92</b>	21	20
Phosphorus	ppm	ASTM D5185m		<b>799</b>	930	1008
Zinc	ppm	ASTM D5185m		<b>37</b>	3	11
Sulfur	ppm	ASTM D5185m		<b>20009</b>	17366	18787
Visc @ 40°C	cSt	ASTM D445		<b>405</b>	147	147



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LW0009083 **Received** : 17 Jun 2024  
**Lab Number** : 06212132 **Tested** : 19 Jun 2024  
**Unique Number** : 11084996 **Diagnosed** : 19 Jun 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: PQ )

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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)