



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area  
**TA Machines**  
 Machine Id  
**SANY SY500 TA946 (S/N SY0503BK00528)**  
 Component  
**Right Final Drive**  
 Fluid  
**CITGO PREMIUM GEAR 80W90 (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LW0009084	LW0008323	LW0007591
Sample Date		Client Info		05 Jun 2024	28 Feb 2024	10 Oct 2023
Machine Age	hrs	Client Info		2398	2148	1672
Oil Age	hrs	Client Info		2398	2148	1672
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	47	238	167
Chromium	ppm	ASTM D5185m	>10	1	5	4
Nickel	ppm	ASTM D5185m	>10	<1	1	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	9	8
Lead	ppm	ASTM D5185m	>25	<1	2	<1
Copper	ppm	ASTM D5185m	>50	<1	1	2
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

**CONTAMINATION**

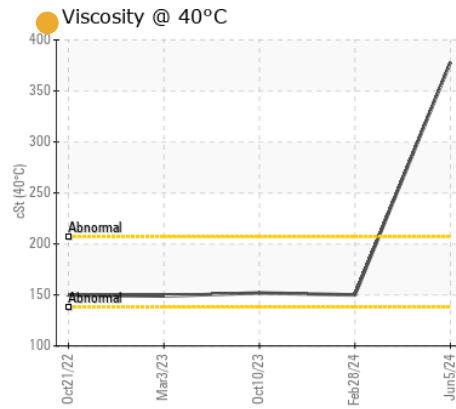
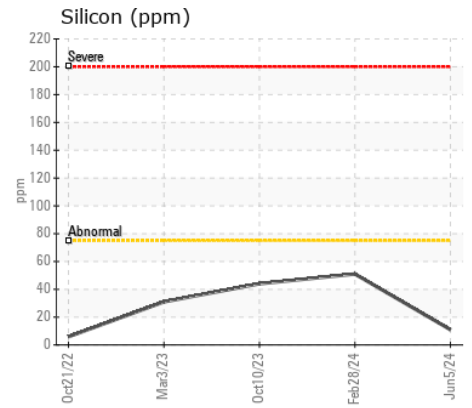
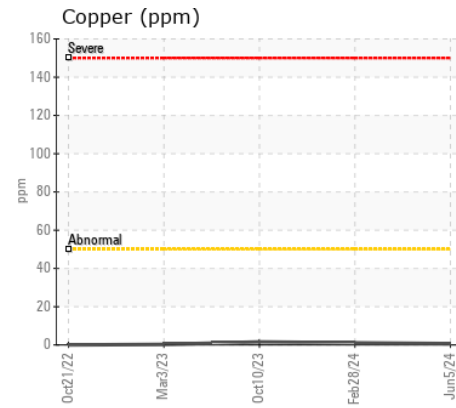
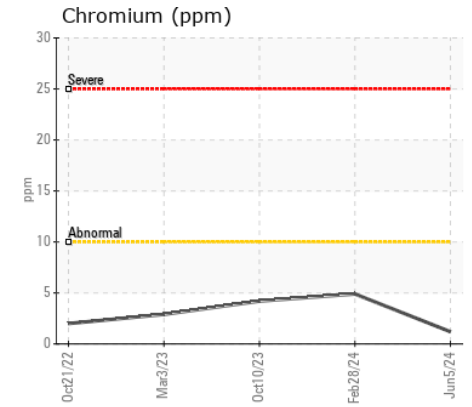
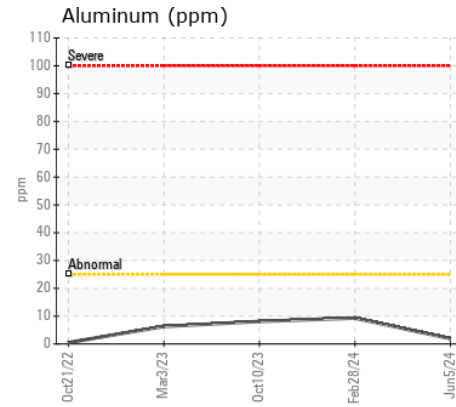
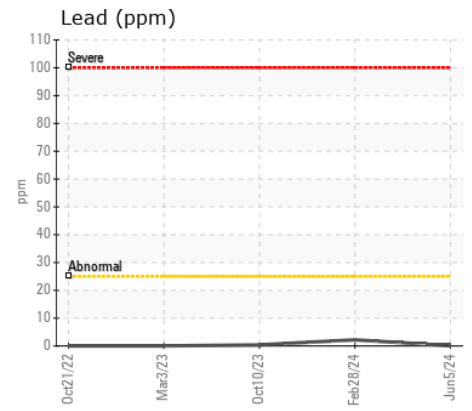
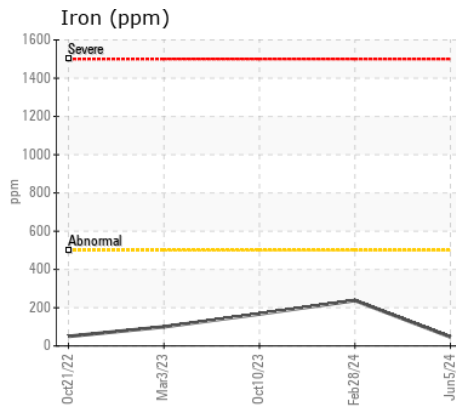
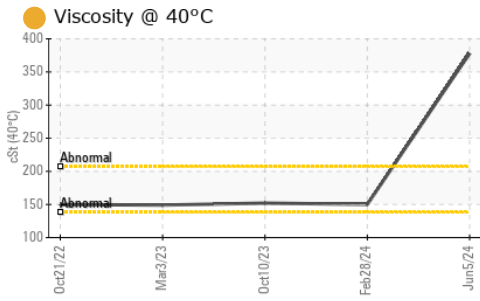
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	11	51	44
Potassium	ppm	ASTM D5185m	>20	2	4	6
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

**FLUID CONDITION**

The oil viscosity is higher than normal. Confirm oil type.

Sodium	ppm	ASTM D5185m		0	2	2
Boron	ppm	ASTM D5185m		118	147	142
Barium	ppm	ASTM D5185m		0	1	<1
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	4	4
Magnesium	ppm	ASTM D5185m		3	11	12
Calcium	ppm	ASTM D5185m		4	36	53
Phosphorus	ppm	ASTM D5185m		817	934	995
Zinc	ppm	ASTM D5185m		7	1	11
Sulfur	ppm	ASTM D5185m		20403	17550	18326
Visc @ 40°C	cSt	ASTM D445		378	150	152



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LW0009084 **Received** : 17 Jun 2024  
**Lab Number** : **06212136** **Tested** : 19 Jun 2024  
**Unique Number** : 11085000 **Diagnosed** : 19 Jun 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: PQ )

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