



# OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area  
**TA Machines**  
 Machine Id  
**Sany SY335 TA964 (S/N 13SY033A36508)**  
 Component  
**Right Final Drive**  
 Fluid  
**CITGO PREMIUM GEAR 80W90 (--- GAL)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LW0008293	LW0006751	LW0006302
Sample Date		Client Info		05 Feb 2024	07 Mar 2023	19 Dec 2022
Machine Age	hrs	Client Info		4865	4141	0
Oil Age	hrs	Client Info		4865	0	0
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				ABNORMAL	ABNORMAL	SEVERE

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	423	▲ 648	▲ 971
Chromium	ppm	ASTM D5185m	>10	6	▲ 14	▲ 18
Nickel	ppm	ASTM D5185m	>10	0	1	0
Titanium	ppm	ASTM D5185m		1	4	5
Silver	ppm	ASTM D5185m		0	9	0
Aluminum	ppm	ASTM D5185m	>25	▲ 30	▲ 77	▲ 119
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	1	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

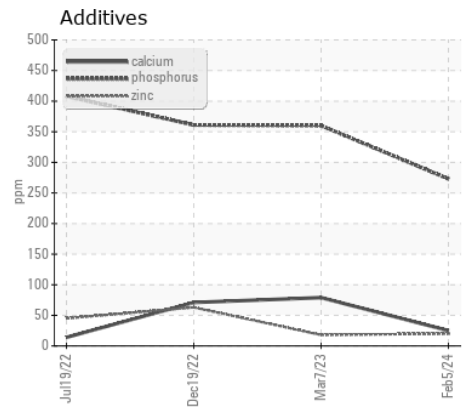
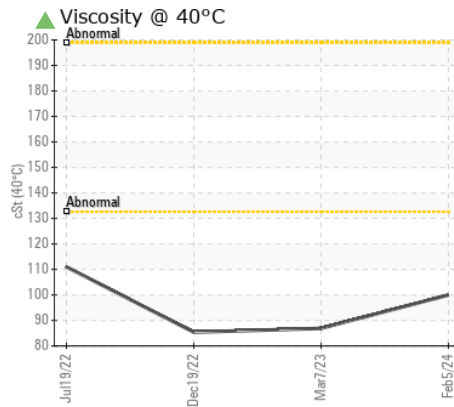
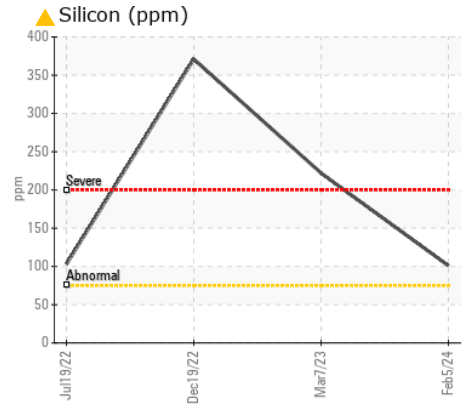
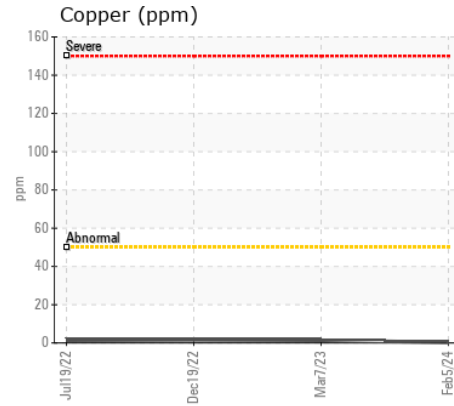
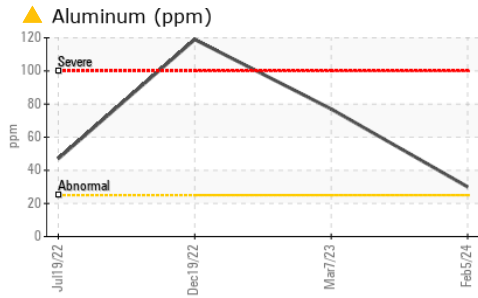
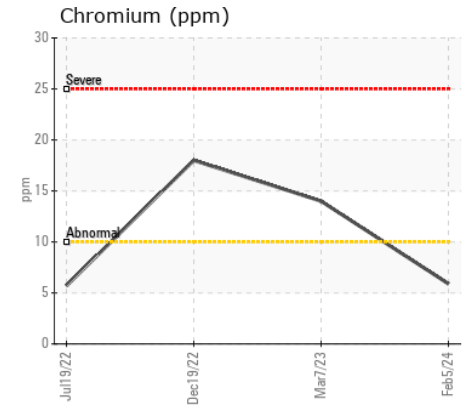
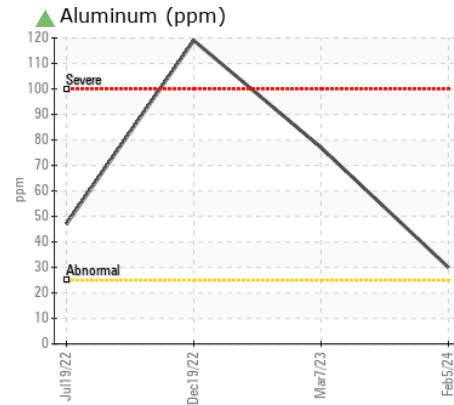
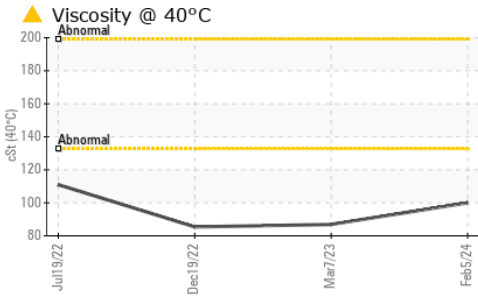
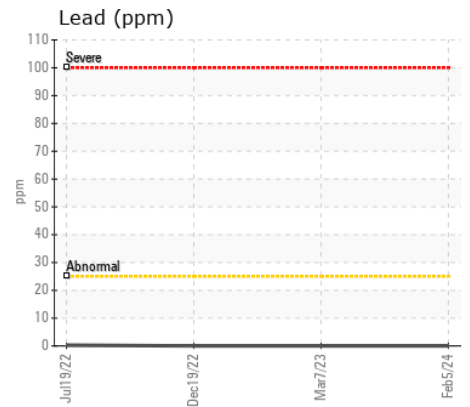
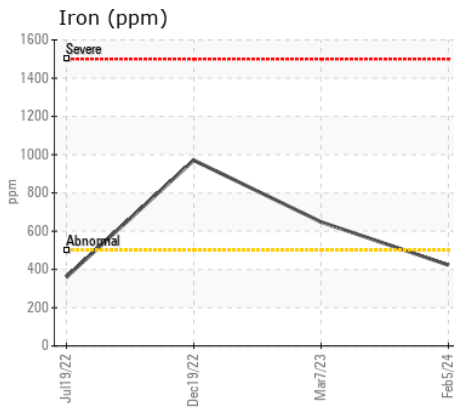
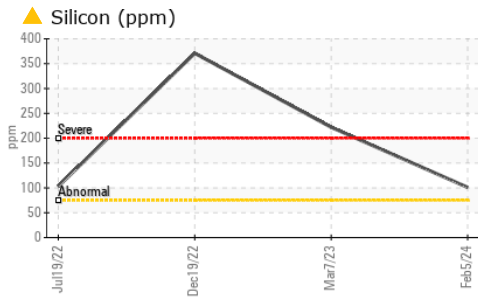
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 101	▲ 222	◆ 371
Potassium	ppm	ASTM D5185m	>20	7	21	31
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	NONE
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 lower than normal. Confirm oil type.

Sodium	ppm	ASTM D5185m		2	5	6
Boron	ppm	ASTM D5185m		3	11	13
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		0	2	2
Manganese	ppm	ASTM D5185m		4	9	11
Magnesium	ppm	ASTM D5185m		14	31	23
Calcium	ppm	ASTM D5185m		25	79	71
Phosphorus	ppm	ASTM D5185m		273	360	361
Zinc	ppm	ASTM D5185m		20	18	63
Sulfur	ppm	ASTM D5185m		14244	18580	19444
Visc @ 40°C	cSt	ASTM D445		▲ 100	▲ 86.9	▲ 85.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LW0008293  
**Lab Number** : 06086432  
**Unique Number** : 10873877  
**Test Package** : MOB 1

**Received** : 12 Feb 2024  
**Tested** : 13 Feb 2024  
**Diagnosed** : 13 Feb 2024 - Don Baldrige

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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)