



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION

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

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LW0008292	LW0006750	LW0006301
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				SEVERE	SEVERE	ABNORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 1062	▲ 1064	▲ 904
Chromium	ppm	ASTM D5185m	>10	▲ 15	▲ 17	▲ 21
Nickel	ppm	ASTM D5185m	>10	0	3	0
Titanium	ppm	ASTM D5185m		5	9	4
Silver	ppm	ASTM D5185m		0	14	0
Aluminum	ppm	ASTM D5185m	>25	▲ 89	▲ 177	▲ 79
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	1	2	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

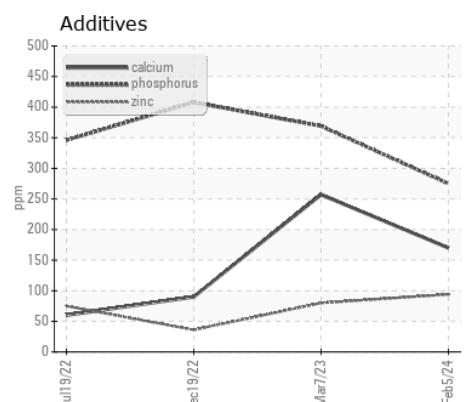
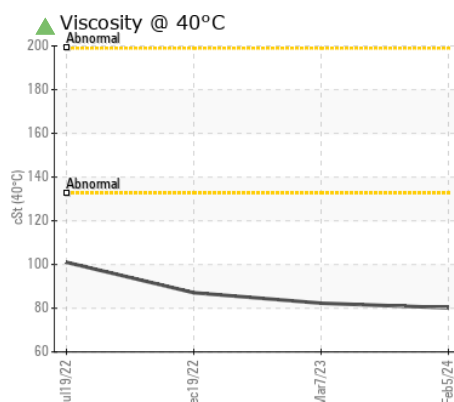
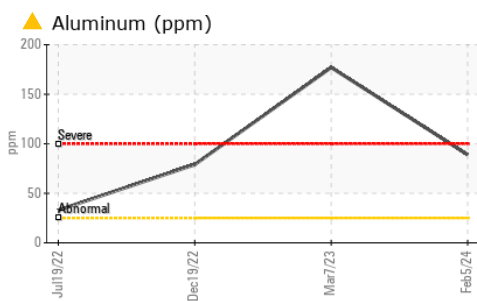
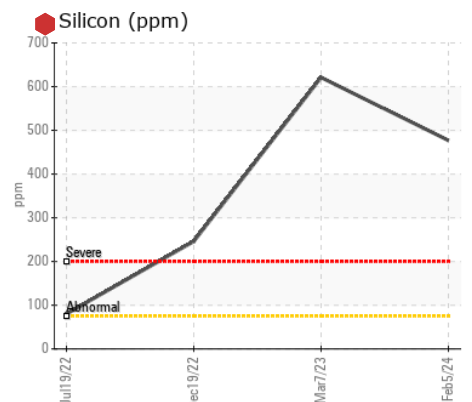
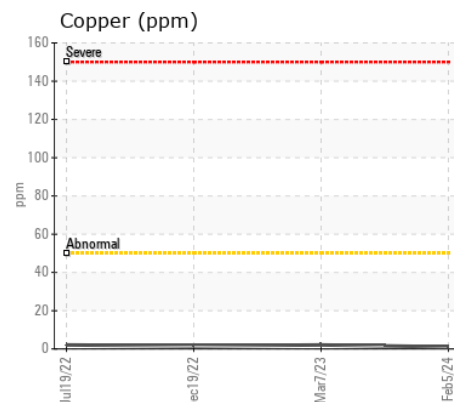
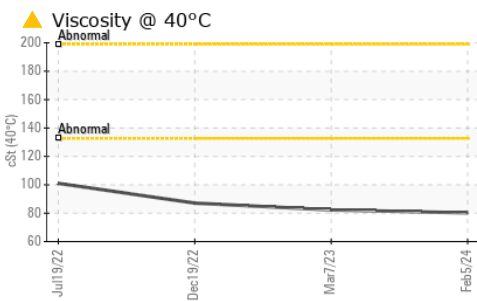
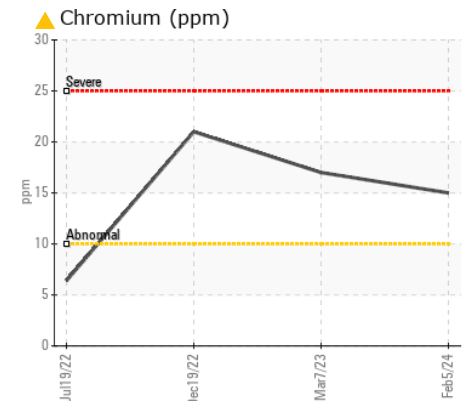
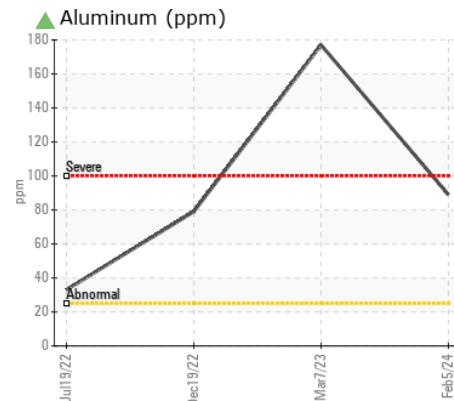
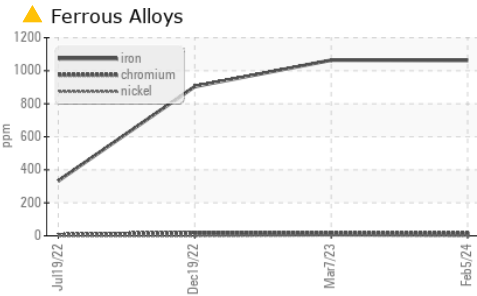
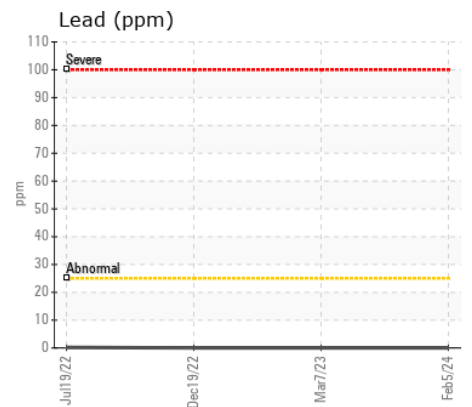
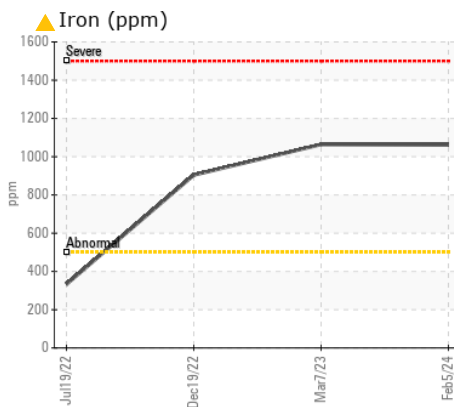
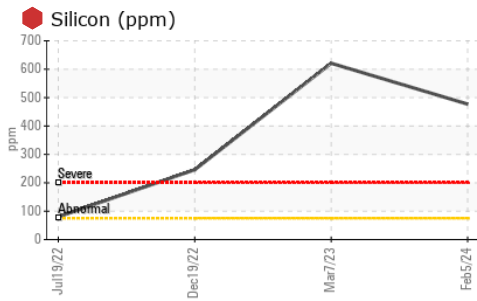
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	◆ 477	◆ 621	▲ 246
Potassium	ppm	ASTM D5185m	>20	31	59	18
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	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	0.2%	NEG

FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		10	12	5
Boron	ppm	ASTM D5185m		6	14	16
Barium	ppm	ASTM D5185m		5	0	0
Molybdenum	ppm	ASTM D5185m		0	2	2
Manganese	ppm	ASTM D5185m		11	12	11
Magnesium	ppm	ASTM D5185m		42	77	32
Calcium	ppm	ASTM D5185m		170	257	90
Phosphorus	ppm	ASTM D5185m		275	369	408
Zinc	ppm	ASTM D5185m		94	80	36
Sulfur	ppm	ASTM D5185m		18361	17656	19290
Visc @ 40°C	cSt	ASTM D445		▲ 80.2	▲ 82.3	▲ 87.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LW0008292
Lab Number : 06086433
Unique Number : 10873878
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)