



OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area
American Demo
 Machine Id
SANY SY365 SY0361CB00768
 Component
Right Final Drive
 Fluid
GEAR OIL SAE 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		LW0008260	LW0007611	PCA0094830
Sample Date		Client Info		04 Jan 2024	23 Oct 2023	25 May 2023
Machine Age	hrs	Client Info		2342	1971	1200
Oil Age	hrs	Client Info		2342	1971	1200
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	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	487	▲ 897	431
Chromium	ppm	ASTM D5185m	>10	6	6	5
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		4	3	3
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ 58	▲ 44	▲ 54
Lead	ppm	ASTM D5185m	>25	<1	0	<1
Copper	ppm	ASTM D5185m	>50	2	3	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	▲ HEAVY	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

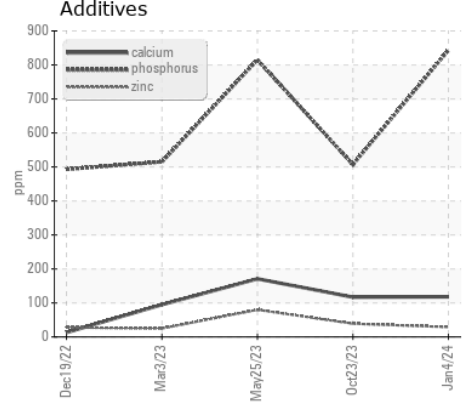
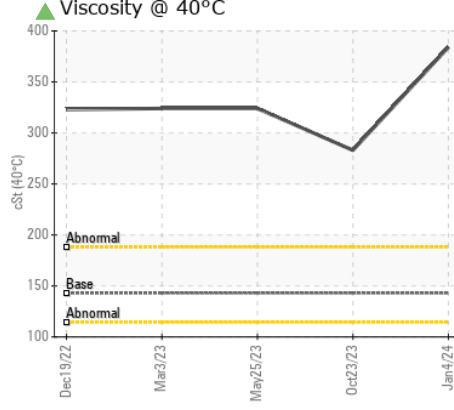
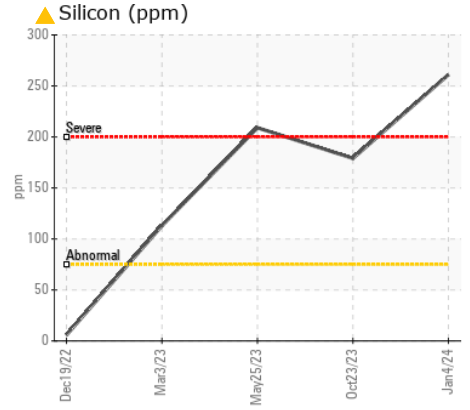
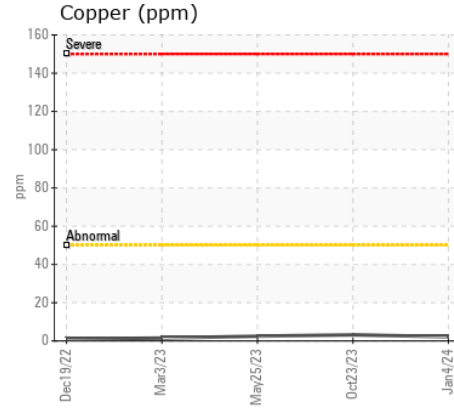
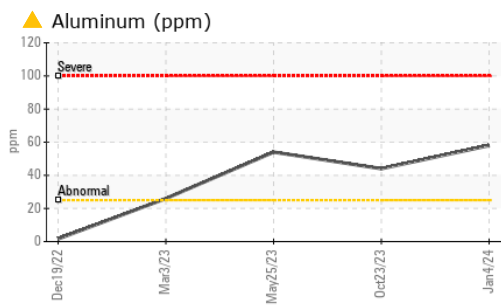
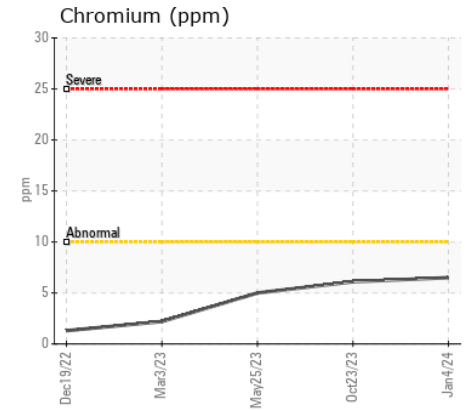
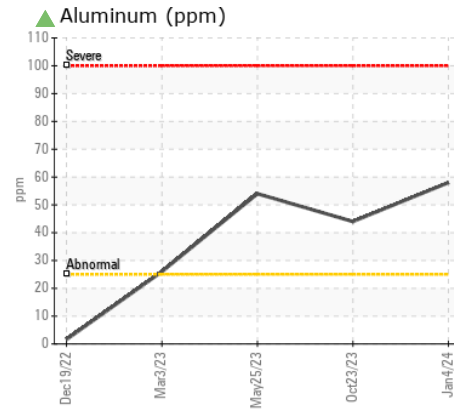
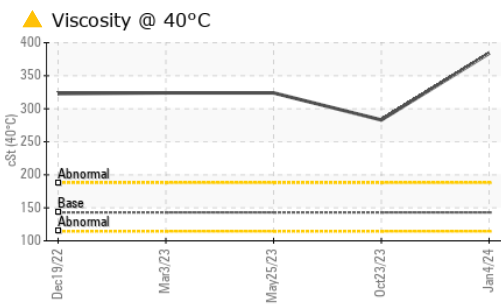
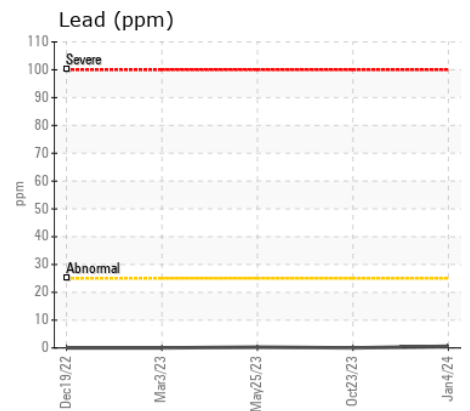
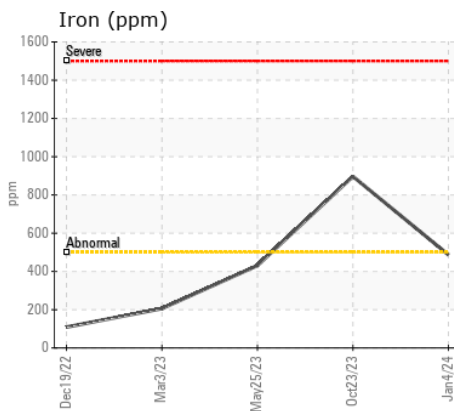
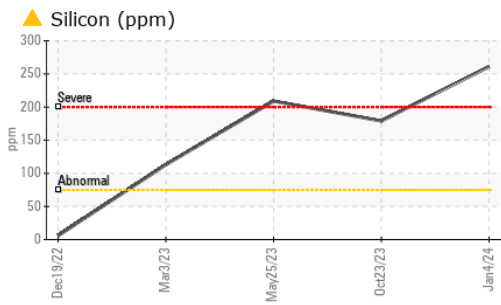
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 261	▲ 179	▲ 209
Potassium	ppm	ASTM D5185m	>20	24	20	21
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	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	8	14	25
Boron	ppm	ASTM D5185m	400	85	2	8
Barium	ppm	ASTM D5185m	200	7	6	8
Molybdenum	ppm	ASTM D5185m	12	<1	0	<1
Manganese	ppm	ASTM D5185m		7	11	10
Magnesium	ppm	ASTM D5185m	12	44	51	60
Calcium	ppm	ASTM D5185m	150	118	117	171
Phosphorus	ppm	ASTM D5185m	1650	843	507	815
Zinc	ppm	ASTM D5185m	125	29	39	80
Sulfur	ppm	ASTM D5185m	22500	22098	22599	28370
Visc @ 40°C	cSt	ASTM D445	143	▲ 384	283	324



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LW0008260 **Received** : 12 Jan 2024
Lab Number : 06059687 **Diagnosed** : 16 Jan 2024
Unique Number : 10831069 **Diagnostician** : Jonathan Hester
Test Package : MOB 1

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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)