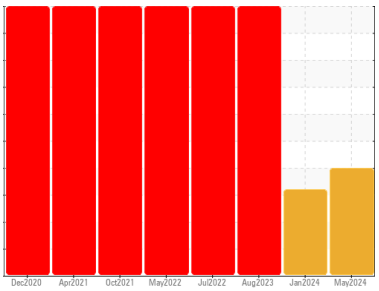
OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Area
TA Machines
Machine Id
Sany SY365 TA745 (S/N SY036MBG80888)
Component
Right Final Drive
Fluid
CITGO PREMIUM GEAR 80W90 (--- GAL)

DIAGNOSIS

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

Wear
Gear wear is indicated.

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

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0115564**	LW0008282	LW0007322
Sample Date		Client Info		**20 May 2024**	16 Jan 2024	31 Aug 2023
Machine Age	hrs	Client Info		**4681**	4415	4133
Oil Age	hrs	Client Info		**4681**	4415	4133
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	▲ **992**	▲ 1077	▲ 4242
Chromium	ppm	ASTM D5185m	>10	▲ **14**	10	▲ 56
Nickel	ppm	ASTM D5185m	>10	**1**	0	1
Titanium	ppm	ASTM D5185m		**4**	2	11
Silver	ppm	ASTM D5185m		**<1**	0	0
Aluminum	ppm	ASTM D5185m	>25	● **35**	● 24	▲ 147
Lead	ppm	ASTM D5185m	>25	**1**	0	0
Copper	ppm	ASTM D5185m	>50	**4**	4	9
Tin	ppm	ASTM D5185m	>10	**0**	0	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	<1
Cadmium	ppm	ASTM D5185m		**<1**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**33**	20	5
Barium	ppm	ASTM D5185m		**0**	<1	7
Molybdenum	ppm	ASTM D5185m		**<1**	0	<1
Manganese	ppm	ASTM D5185m		**10**	8	33
Magnesium	ppm	ASTM D5185m		**33**	17	82
Calcium	ppm	ASTM D5185m		**76**	51	148
Phosphorus	ppm	ASTM D5185m		**581**	683	186
Zinc	ppm	ASTM D5185m		**10**	0	8
Sulfur	ppm	ASTM D5185m		**21900**	25561	17499

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **192**	▲ 163	▲ 902
Sodium	ppm	ASTM D5185m		**9**	7	37
Potassium	ppm	ASTM D5185m	>20	**13**	10	48

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

OIL DIAGNOSTICS

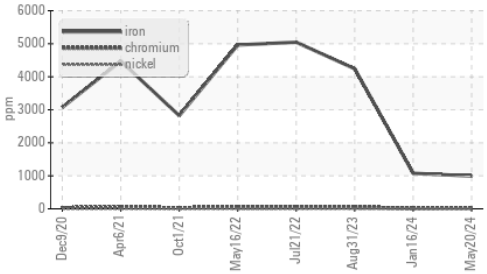
OIL ANALYSIS REPORT

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**240**	205	127

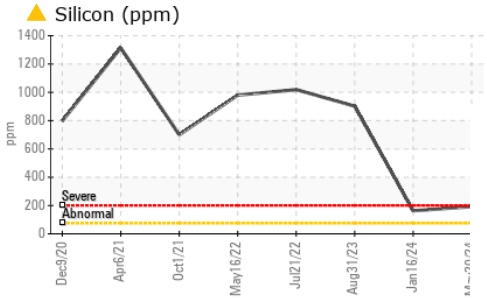
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

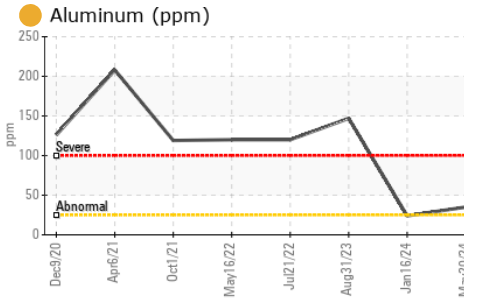
Ferrous Alloys



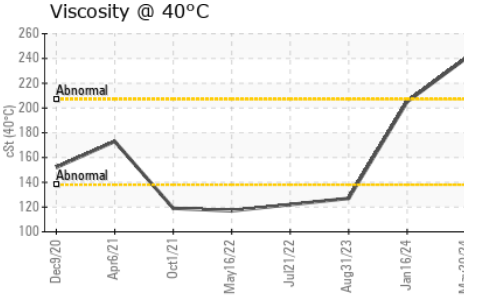
Silicon (ppm)



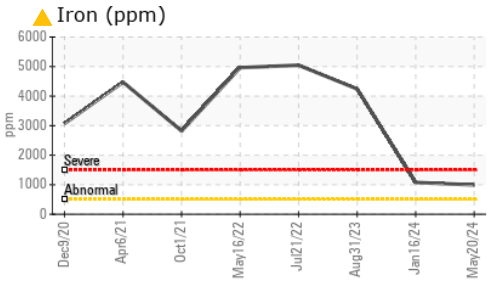
Aluminum (ppm)



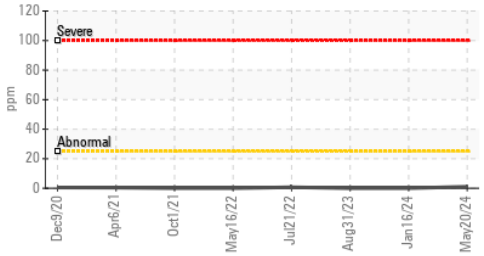
Viscosity @ 40°C



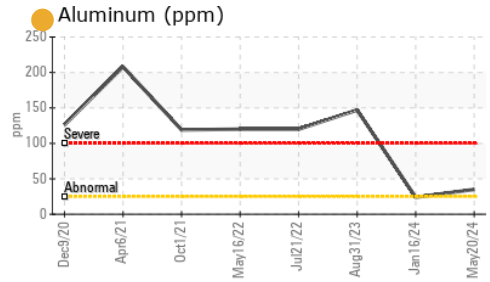
Iron (ppm)



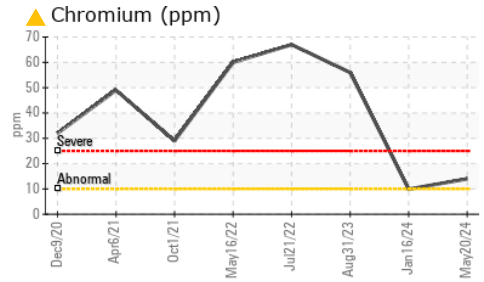
Lead (ppm)



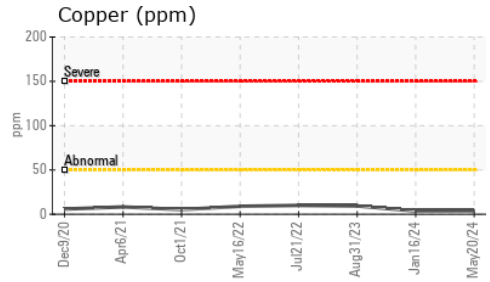
Aluminum (ppm)



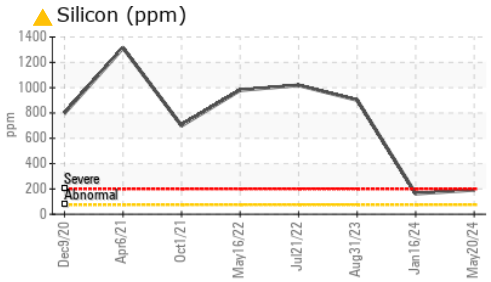
Chromium (ppm)



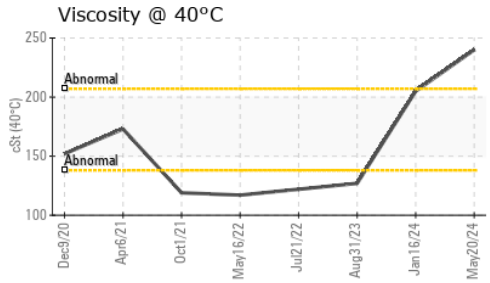
Copper (ppm)



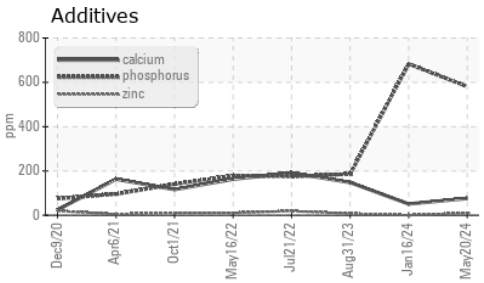
Silicon (ppm)



Viscosity @ 40°C



Additives



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0115564
Lab Number : 06189585
Unique Number : 11046337
Test Package : MOB 1

Received : 23 May 2024
Tested : 25 May 2024
Diagnosed : 28 May 2024 - Sean Felton

Certificate L2367

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)

CHICAGO MACHINERY INC
3142 EAST LINCOLN
LYNWOOD, IL
US 60411-7728
Contact: Mike Korbelik
mike@chicagomachineryinc.com
T: (708)758-2060
F: