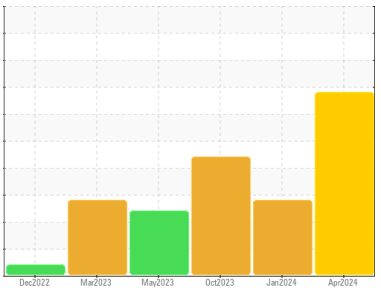
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

Sample Rating Trend



DIRT

Area
American Demo
Machine Id
SANY SY365 SY0361CB00768
Component
Right Final Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

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.

Wear
Gear wear is indicated.

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

Fluid Condition
The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0115519**	LW0008260	LW0007611
Sample Date		Client Info		**09 Apr 2024**	04 Jan 2024	23 Oct 2023
Machine Age	hrs	Client Info		**2795**	2342	1971
Oil Age	hrs	Client Info		**2795**	2342	1971
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**SEVERE**	ABNORMAL	ABNORMAL

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	▲ **601**	487	▲ 897
Chromium	ppm	ASTM D5185m	>10	**8**	6	6
Nickel	ppm	ASTM D5185m	>10	**0**	<1	<1
Titanium	ppm	ASTM D5185m		**4**	4	3
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	● **67**	● 58	● 44
Lead	ppm	ASTM D5185m	>25	**0**	<1	0
Copper	ppm	ASTM D5185m	>50	**<1**	2	3
Tin	ppm	ASTM D5185m	>10	**0**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	**84**	85	2
Barium	ppm	ASTM D5185m	200	**4**	7	6
Molybdenum	ppm	ASTM D5185m	12	**0**	<1	0
Manganese	ppm	ASTM D5185m		**8**	7	11
Magnesium	ppm	ASTM D5185m	12	**62**	44	51
Calcium	ppm	ASTM D5185m	150	**173**	118	117
Phosphorus	ppm	ASTM D5185m	1650	**817**	843	507
Zinc	ppm	ASTM D5185m	125	**23**	29	39
Sulfur	ppm	ASTM D5185m	22500	**23116**	22098	22599

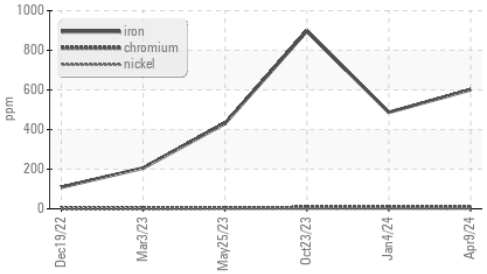
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **330**	▲ 261	▲ 179
Sodium	ppm	ASTM D5185m	>170	**15**	8	14
Potassium	ppm	ASTM D5185m	>20	**25**	24	20

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	▲ HEAVY
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

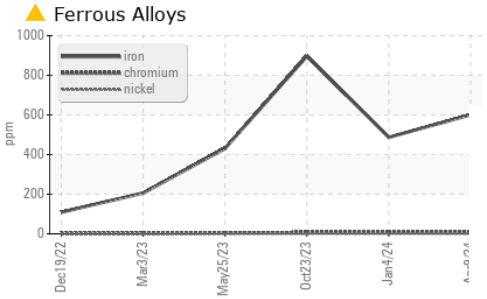
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

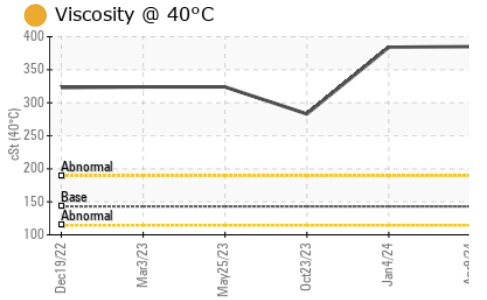
Ferrous Alloys



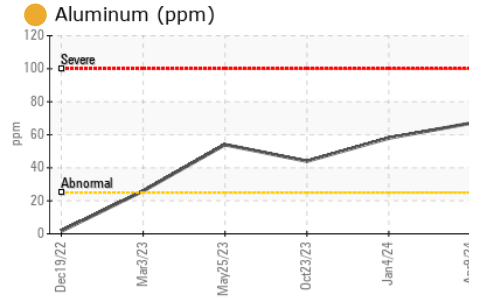
Ferrous Alloys



Viscosity @ 40°C



Aluminum (ppm)

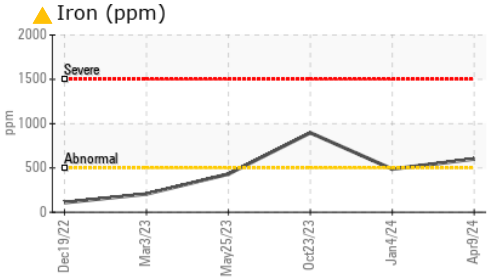


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143	**385**	384	283

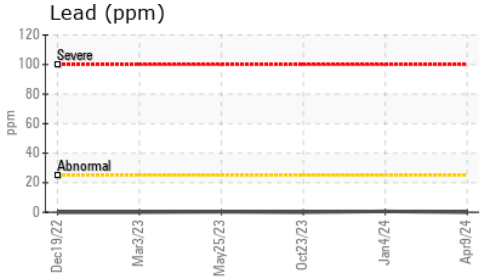
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

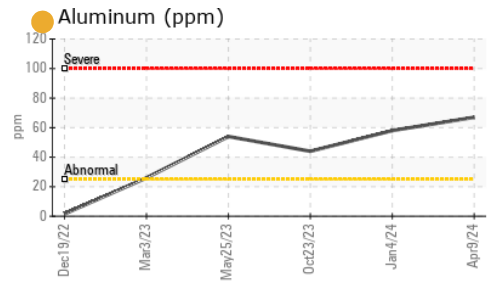
Iron (ppm)



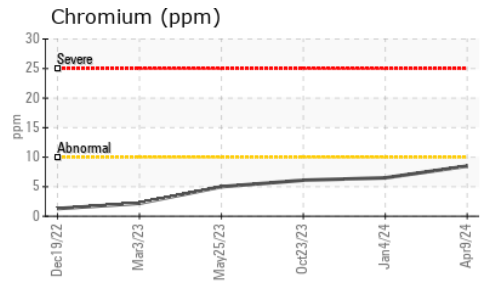
Lead (ppm)



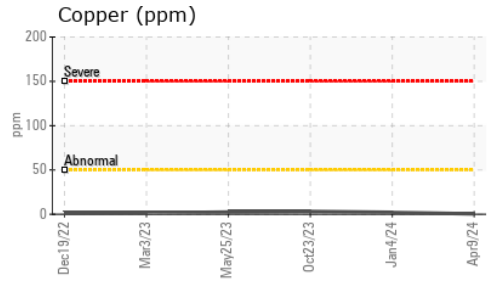
Aluminum (ppm)



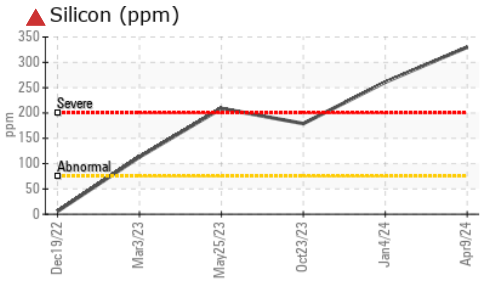
Chromium (ppm)



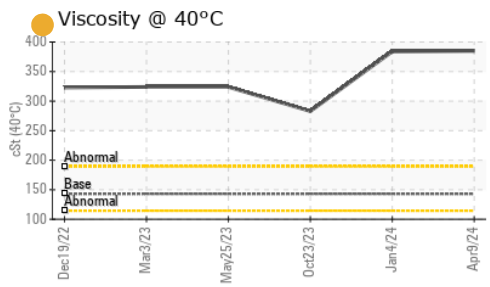
Copper (ppm)



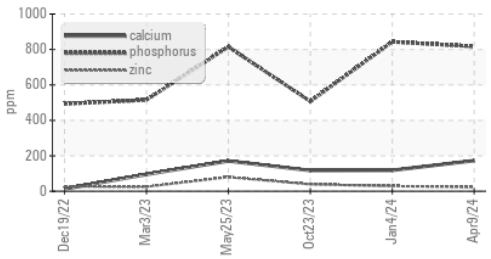
Silicon (ppm)



Viscosity @ 40°C



Additives



ANAB ACCREDITED TESTING LABORATORY
Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0115519
Lab Number : 06147695
Unique Number : 10977773
Test Package : MOB 1

Received : 12 Apr 2024
Tested : 15 Apr 2024
Diagnosed : 16 Apr 2024 - Sean Felton

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:

Report Id: THOLYN [WUSCAR] 06147695 (Generated: 04/16/2024 13:21:54) Rev: 1

Submitted By: Mike Korbelik