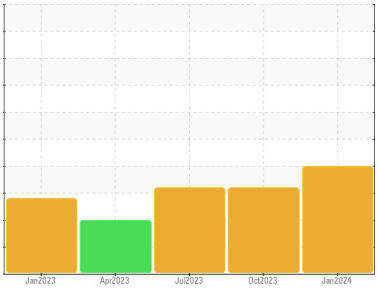
OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Machine Id
GARDNER DENVER S202859 - LONGHORN LOCKERS
Component
Compressor
Fluid
QUINCY QUINSYN (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check for a possible overheat condition. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a moderate amount of particulates present in the oil.

Fluid Condition
The oil viscosity is higher than normal. The AN level is at the top-end of the recommended limit. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TO50001872**	QUC0000535	QUC0000458
Sample Date		Client Info		**08 Jan 2024**	20 Oct 2023	28 Jul 2023
Machine Age	hrs	Client Info		**67023**	66507	65834
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**19**	15	15
Chromium	ppm	ASTM D5185m	>10	**<1**	0	0
Nickel	ppm	ASTM D5185m		**<1**	<1	0
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ **29**	22	23
Lead	ppm	ASTM D5185m	>25	**<1**	0	0
Copper	ppm	ASTM D5185m	>50	**29**	13	7
Tin	ppm	ASTM D5185m	>15	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**1**	3	2
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	0	0
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m		**0**	<1	2
Calcium	ppm	ASTM D5185m		**0**	<1	0
Phosphorus	ppm	ASTM D5185m		**104**	126	124
Zinc	ppm	ASTM D5185m		**780**	372	198
Sulfur	ppm	ASTM D5185m		**317**	457	372

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**0**	<1	<1
Sodium	ppm	ASTM D5185m		**0**	<1	3
Potassium	ppm	ASTM D5185m	>20	**2**	<1	<1
Water	%	ASTM D6304	>0.1	**0.041**	0.018	0.072
ppm Water	ppm	ASTM D6304	>1000	**413**	184.1	727.2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **18058**	▲ 17036	▲ 10767
Particles >6µm		ASTM D7647	>2500	▲ **3325**	▲ 3456	▲ 2559
Particles >14µm		ASTM D7647	>320	**152**	187	200
Particles >21µm		ASTM D7647	>80	**28**	45	49
Particles >38µm		ASTM D7647	>20	**1**	4	3
Particles >71µm		ASTM D7647	>4	**0**	1	1
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **21/19/14**	▲ 21/19/15	▲ 21/19/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	.10	▲ **2.00**	▲ 1.67	▲ 2.99

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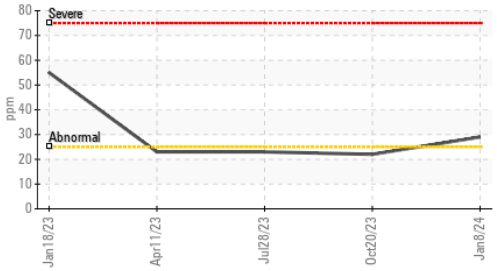
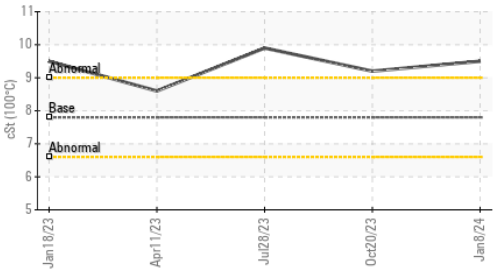
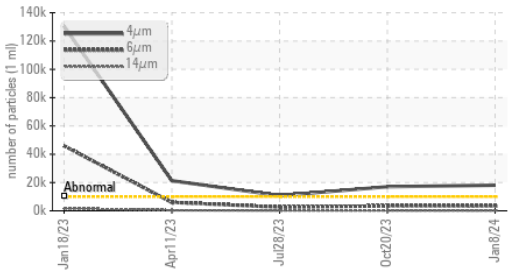
Aluminum (ppm)



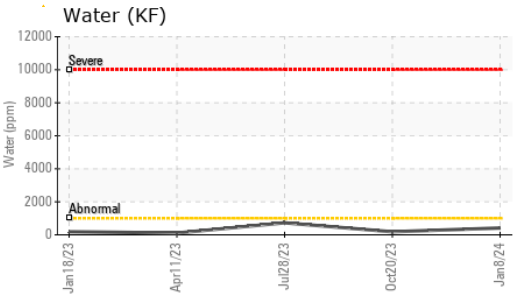
Viscosity @ 100°C



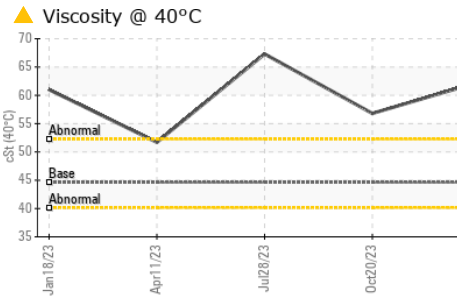
Particle Trend



Water (KF)



Viscosity @ 40°C



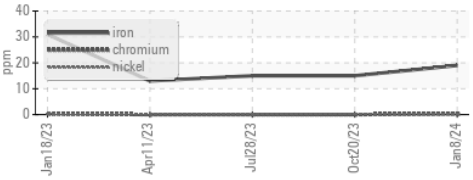
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.6	▲ **62.4**	▲ 56.8	▲ 67.3
Visc @ 100°C	cSt	ASTM D445	7.8	▲ **9.5**	▲ 9.2	▲ 9.9
Viscosity Index (VI)	Scale	ASTM D2270	132	**133**	142	130

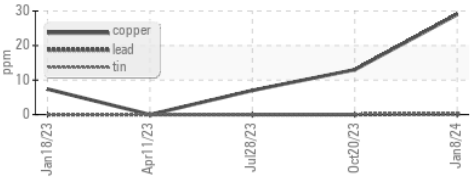
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

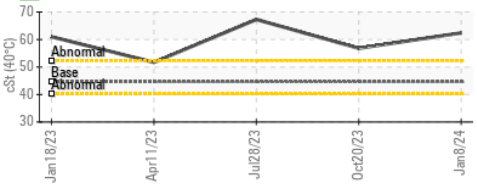
Ferrous Alloys



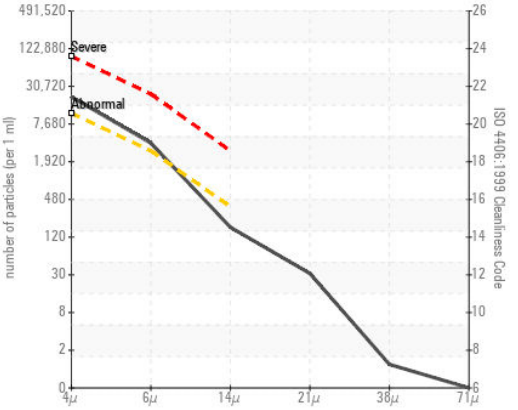
Non-ferrous Metals



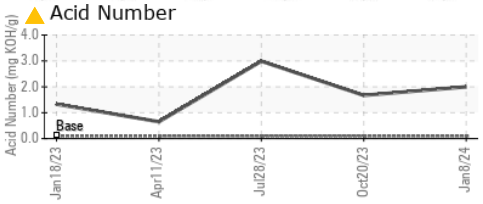
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001872 **Recieved** : 30 Jan 2024
Lab Number : 06074713 **Diagnosed** : 01 Feb 2024
Unique Number : 10856804 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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)

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