



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	ABNORMAL

Machine Id **GARDNER DENVER S202859 - LONGHORN LOCKERS**

Component **Compressor**

Fluid **QUINCY QUINSYN (--- GAL)**

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.

Test	UOM	Method	Limit/Abn	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
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

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
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

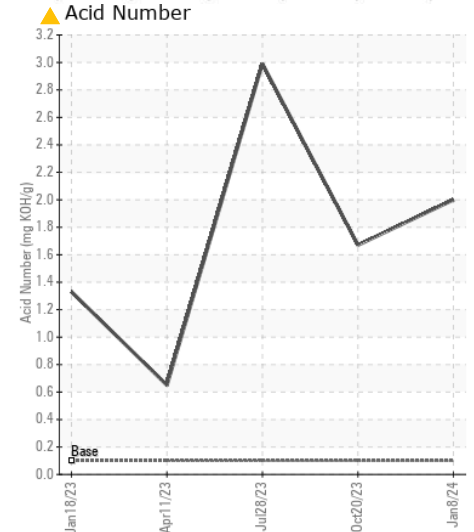
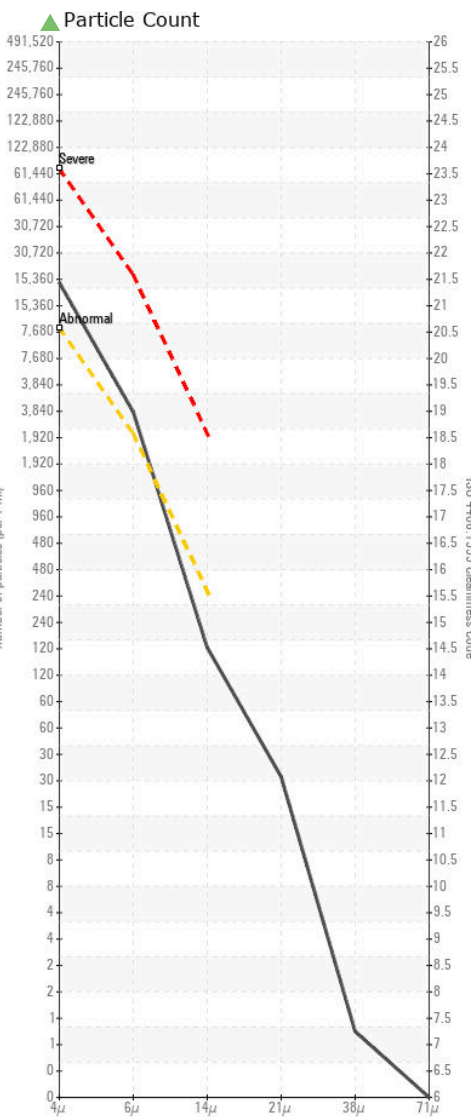
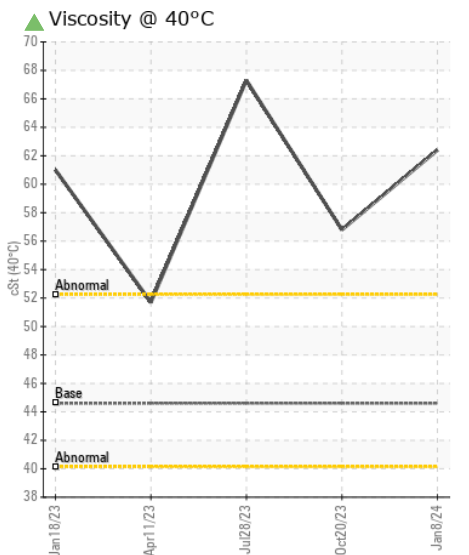
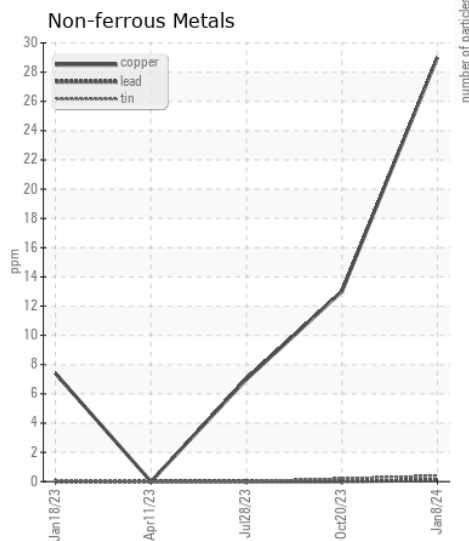
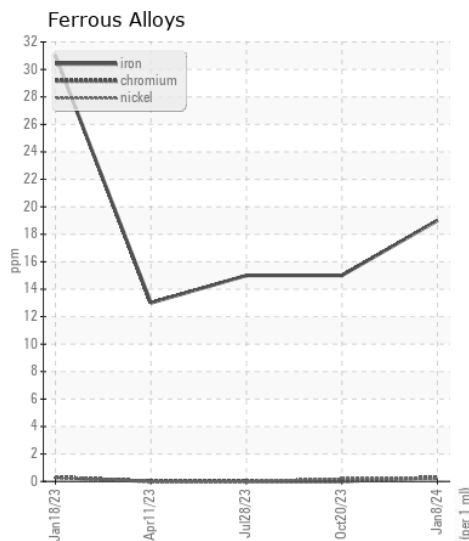
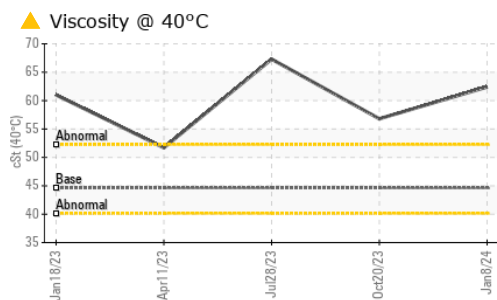
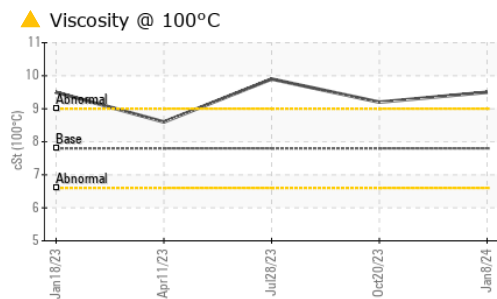
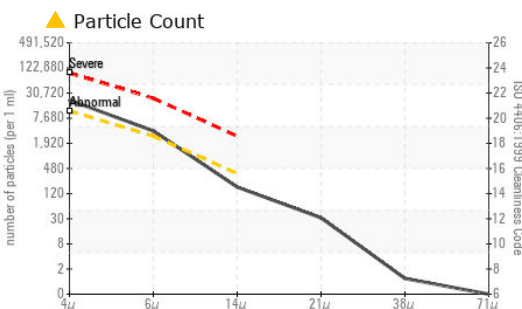
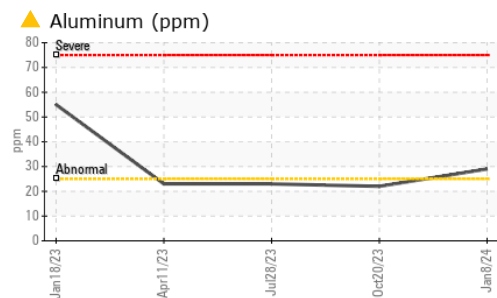
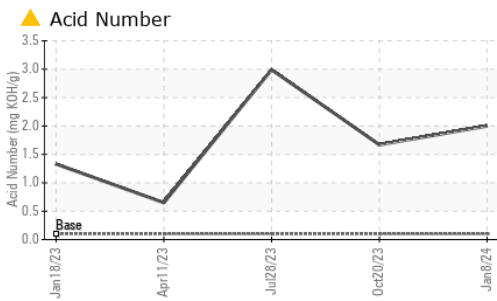
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	0	<1	<1
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
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
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	<1	3
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
Acid Number (AN)	mg KOH/g	ASTM D8045	.10	▲ 2.00	▲ 1.67	▲ 2.99
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



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001872 **Received** : 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)

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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)