



Machine Id
QUINCY UTY202119
Component
Compressor
Fluid
QUINCY QUINSYN (--- GAL)

RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. The filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		QUC0000813	---	---
Sample Date		Client Info		22 May 2024	---	---
Machine Age	hrs	Client Info		4484	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---

WEAR

The iron level is abnormal. The aluminum level is severe.

Iron	ppm	ASTM D5185m	>50	▲ 107	---	---
Chromium	ppm	ASTM D5185m	>10	0	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	▲ 161	---	---
Lead	ppm	ASTM D5185m	>25	0	---	---
Copper	ppm	ASTM D5185m	>50	1	---	---
Tin	ppm	ASTM D5185m	>15	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

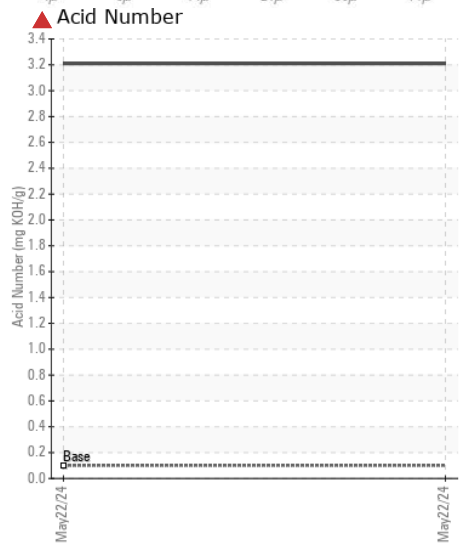
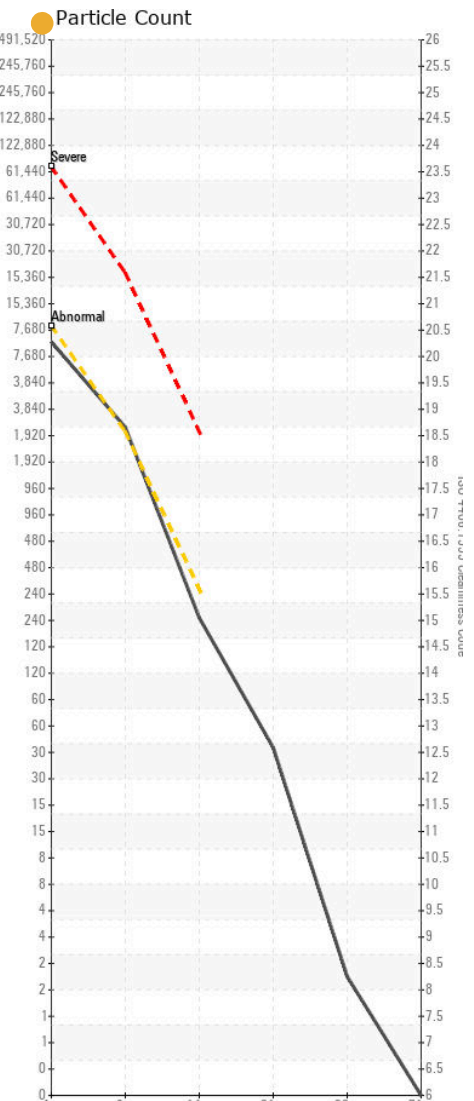
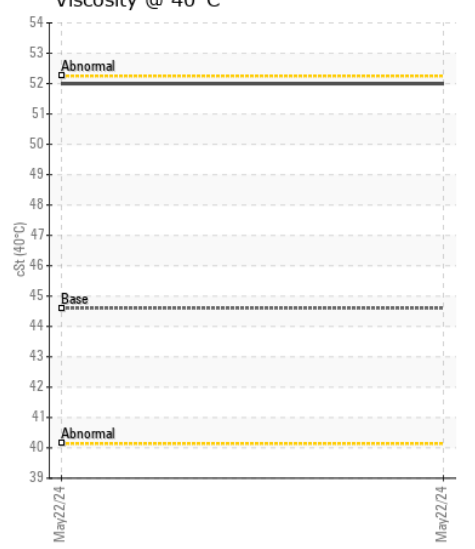
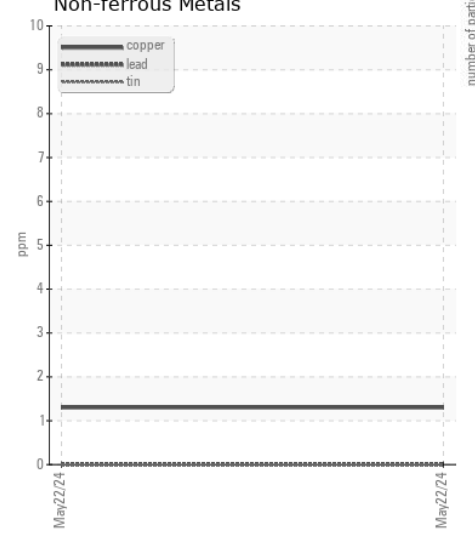
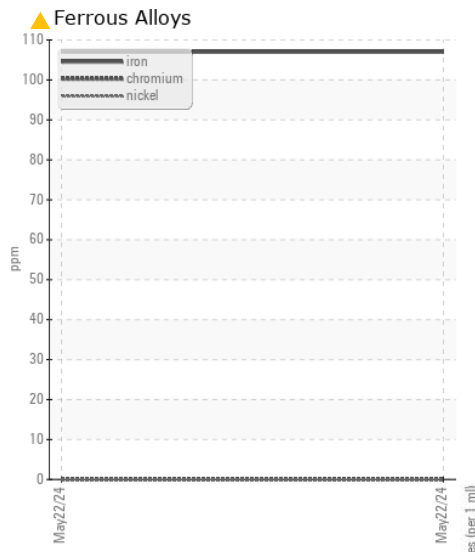
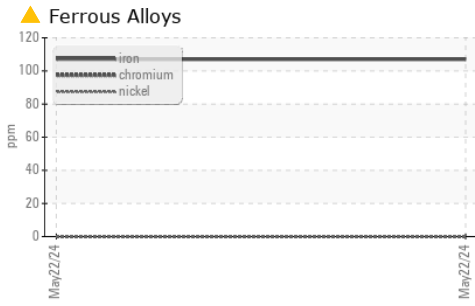
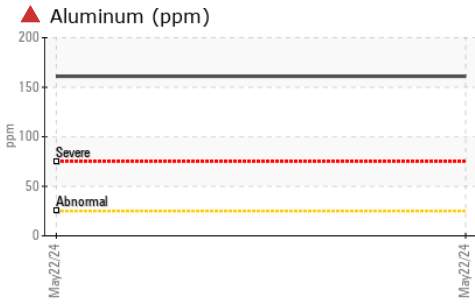
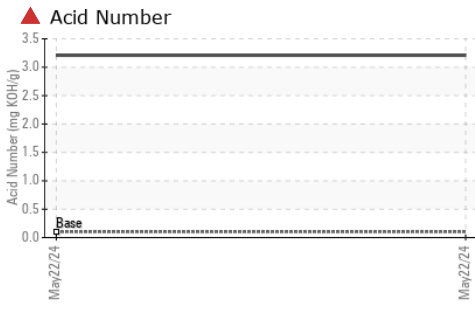
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>25	<1	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water	%	ASTM D6304	>0.1	0.030	---	---
ppm Water	ppm	ASTM D6304	>1000	300	---	---
Particles >4µm		ASTM D7647	>10000	8098	---	---
Particles >6µm		ASTM D7647	>2500	● 2646	---	---
Particles >14µm		ASTM D7647	>320	219	---	---
Particles >21µm		ASTM D7647	>80	40	---	---
Particles >38µm		ASTM D7647	>20	2	---	---
Particles >71µm		ASTM D7647	>4	0	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	● 20/19/15	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---

FLUID CONDITION

The AN level is above the recommended limit. TAN level indicates possible presence of varnish.

Sodium	ppm	ASTM D5185m		2	---	---
Boron	ppm	ASTM D5185m		2	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		<1	---	---
Calcium	ppm	ASTM D5185m		1	---	---
Phosphorus	ppm	ASTM D5185m		120	---	---
Zinc	ppm	ASTM D5185m		15	---	---
Sulfur	ppm	ASTM D5185m		416	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	.10	▲ 3.21	---	---
Visc @ 40°C	cSt	ASTM D445	44.6	52.0	---	---
Visc @ 100°C	cSt	ASTM D445	7.8	8.5	---	---
Viscosity Index (VI)	Scale	ASTM D2270	132	138	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : QUC0000813
Lab Number : 06210096
Unique Number : 11082960
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)
Received : 14 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 20 Jun 2024 - Jonathan Hester

QUALITY COMPRESSOR
 4428 CR 616
 ALVARADO, TX
 US 76009
 Contact: SEAN
 SEAN@QCOMPRESSOR.COM
 T: (817)822-1333
 F:

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)