



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	SEVERE

Area
STEAM AND POWER
 Machine Id
424.1250 # 9 AIR COMPRESSOR

Component
Air Compressor
 Fluid
PENNZOIL DEXRON MERCON ATF FLUID (15 GAL)

RECOMMENDATION

Recommend drain oil if not already done and flush before refilling with oil. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PE0000296	---	---
Sample Date		Client Info		28 Feb 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		21	---	---
Iron	ppm	ASTM D5185m	>50	2	---	---
Chromium	ppm	ASTM D5185m	>4	0	---	---
Nickel	ppm	ASTM D5185m	>4	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m	>10	<1	---	---
Lead	ppm	ASTM D5185m	>20	0	---	---
Copper	ppm	ASTM D5185m	>40	<1	---	---
Tin	ppm	ASTM D5185m	>5	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

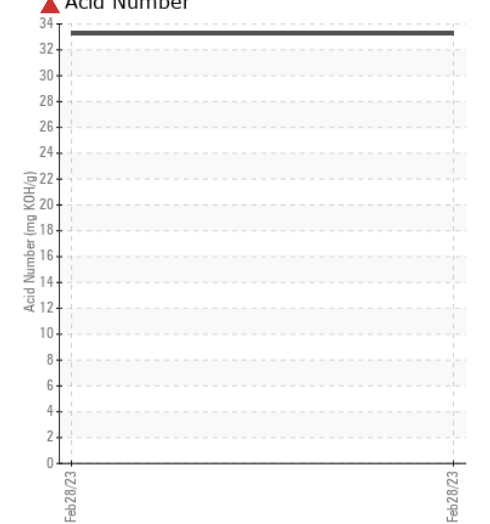
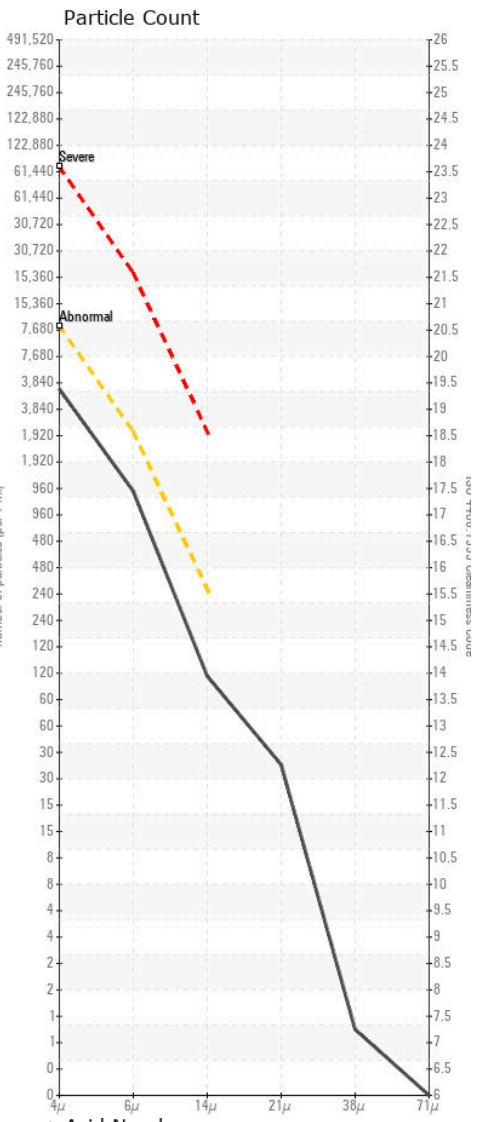
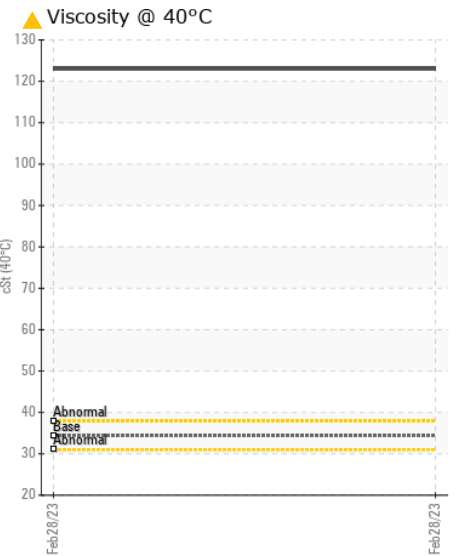
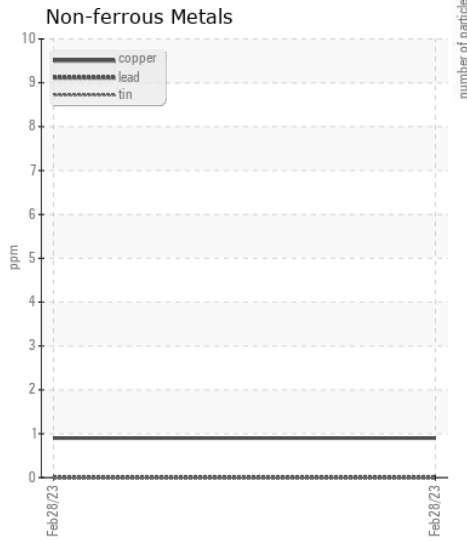
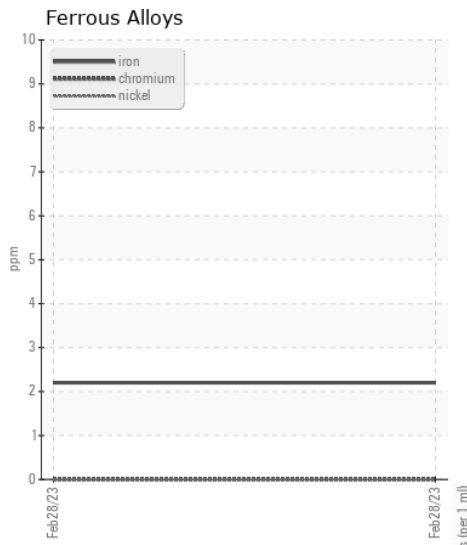
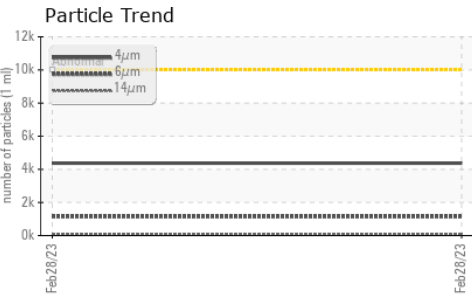
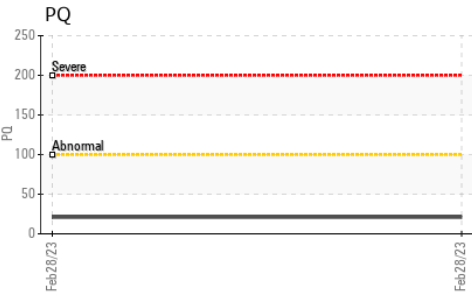
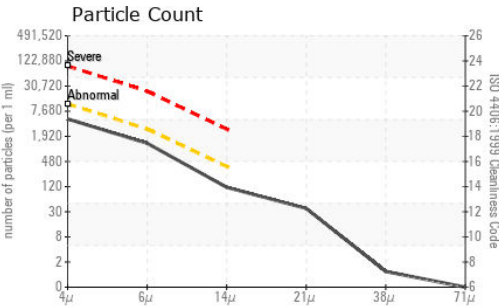
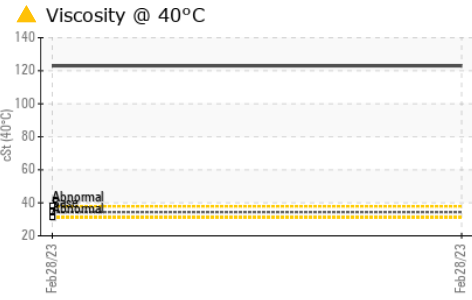
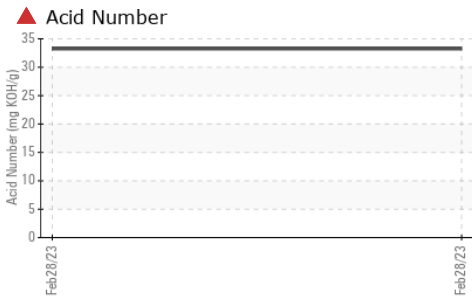
The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	2	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Water	%	ASTM D6304	>0.6	NEG	---	---
Particles >4µm		ASTM D7647	>10000	4369	---	---
Particles >6µm		ASTM D7647	>2500	1148	---	---
Particles >14µm		ASTM D7647	>320	102	---	---
Particles >21µm		ASTM D7647	>80	32	---	---
Particles >38µm		ASTM D7647	>20	1	---	---
Particles >71µm		ASTM D7647	>4	0	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/14	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.6	NEG	---	---

FLUID CONDITION

The oil viscosity is higher than normal because of excessive oxidation. The AN level is above the recommended limit. Additives are consistent with reported ATF fluid.

Sodium	ppm	ASTM D5185m		51	---	---
Boron	ppm	ASTM D5185m		28	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		2	---	---
Calcium	ppm	ASTM D5185m		96	---	---
Phosphorus	ppm	ASTM D5185m		191	---	---
Zinc	ppm	ASTM D5185m		42	---	---
Sulfur	ppm	ASTM D5185m		469	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ 33.25	---	---
Visc @ 40°C	cSt	ASTM D445	34.35	▲ 123	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0000296
Lab Number : 05786118
Unique Number : 10370789
Test Package : PLANT (Additional Tests: ICP, KF, KV40, PQ, PrtCount, SCREEN)

Port Townsend Paper Corporation
 100 Mill Rd
 Port Townsend, WA
 US 98368
 Contact: LONNIE LOREE
 lonnie.loree@ptpc.com
 T: (907)738-6506
 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)