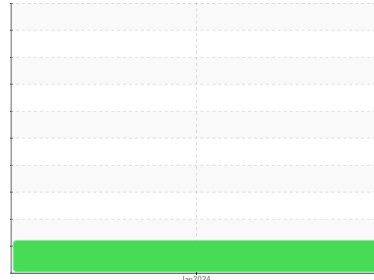




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
NH3
 Component
Refrigeration Compressor
 Fluid
CAMCO 717 HT (130 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

Sample Number	Client Info	method	limit/base	current	history1	history2
USP0005258	---	---	---	---	---	---
Sample Date	Client Info	method	limit/base	current	history1	history2
10 Jan 2024	---	---	---	---	---	---
Machine Age	Client Info	method	limit/base	current	history1	history2
0	---	---	---	---	---	---
Oil Age	Client Info	method	limit/base	current	history1	history2
0	---	---	---	---	---	---
Oil Changed	Client Info	method	limit/base	current	history1	history2
N/A	---	---	---	---	---	---
Sample Status	Client Info	method	limit/base	current	history1	history2
ATTENTION	---	---	---	---	---	---

WEAR METALS

Element	unit	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	---	---
Chromium	ppm	ASTM D5185m	>2	0	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>2	0	---	---
Aluminum	ppm	ASTM D5185m	>3	0	---	---
Lead	ppm	ASTM D5185m	>2	0	---	---
Copper	ppm	ASTM D5185m	>8	<1	---	---
Tin	ppm	ASTM D5185m	>4	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
Cadmium	ppm	ASTM D5185m		0	---	---

ADDITIVES

Element	unit	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		0	---	---
Calcium	ppm	ASTM D5185m		0	---	---
Phosphorus	ppm	ASTM D5185m		0	---	---
Zinc	ppm	ASTM D5185m		0	---	---
Sulfur	ppm	ASTM D5185m		0	---	---

CONTAMINANTS

Element	unit	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	---	---
Sodium	ppm	ASTM D5185m		0	---	---
Potassium	ppm	ASTM D5185m	>20	1	---	---
Water	%	ASTM D6304	>0.01	0.002	---	---
ppm Water	ppm	ASTM D6304	>100	17	---	---

FLUID CLEANLINESS

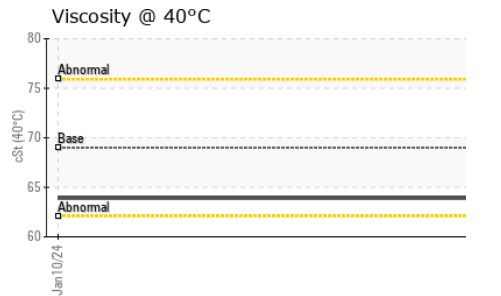
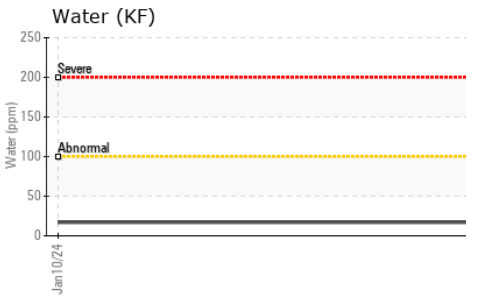
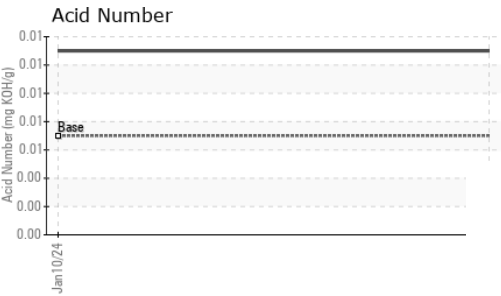
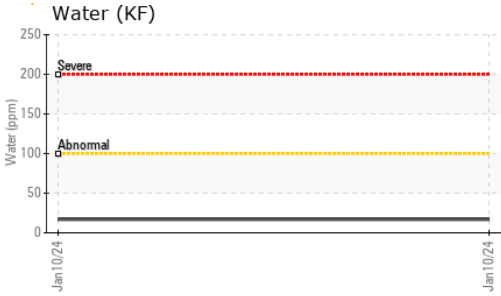
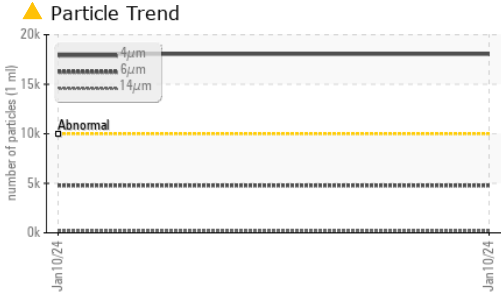
Parameter	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 18045	---	---
Particles >6µm	ASTM D7647	>2500	▲ 4779	---	---
Particles >14µm	ASTM D7647	>320	194	---	---
Particles >21µm	ASTM D7647	>80	31	---	---
Particles >38µm	ASTM D7647	>20	0	---	---
Particles >71µm	ASTM D7647	>4	0	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 21/19/15	---	---

FLUID DEGRADATION

Parameter	unit	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.007	0.013	---	---



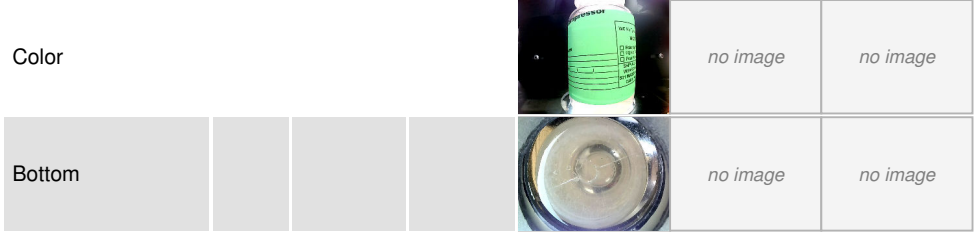
OIL ANALYSIS REPORT



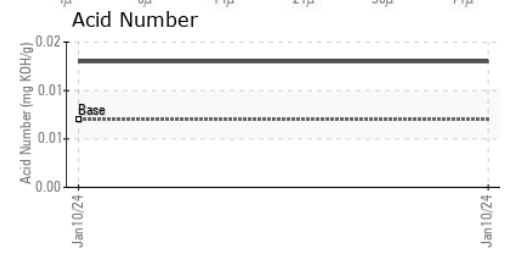
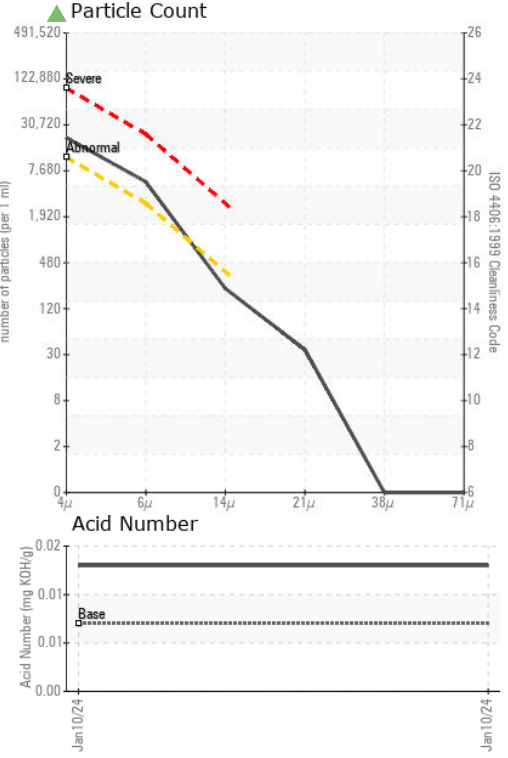
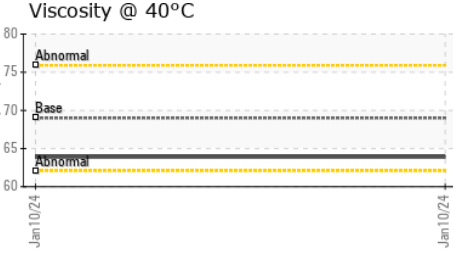
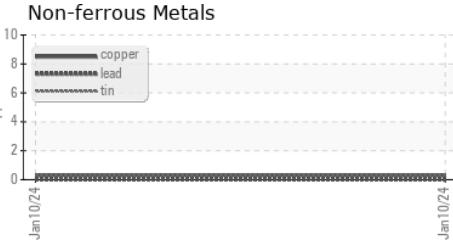
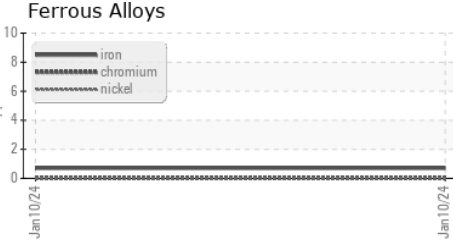
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.01	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	69	63.9	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0005258 **Received** : 11 Jan 2024
Lab Number : 06058146 **Diagnosed** : 12 Jan 2024
Unique Number : 10829528 **Diagnostician** : Doug Bogart
Test Package : IND 2

POET BIOREFINING - LAKE CRYSTAL
 19200 499TH AVE
 LAKE CRYSTAL, MN
 US 56055
 Contact: Service Manager

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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F: