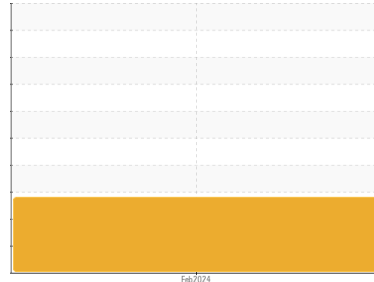




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
PETERS HEAT TREAT - PENZ QUENCH 10 26

Component
New (Unused) Oil
Fluid
{not provided} (--- QTS)

DIAGNOSIS

▲ Recommendation

This is a baseline read-out on the submitted sample.

▲ Contamination

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WCI2277555	---	---
Sample Date	Client Info	23 Feb 2024	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >5	40	---	---
Chromium ppm	ASTM D5185m >5	0	---	---
Nickel ppm	ASTM D5185m >5	0	---	---
Titanium ppm	ASTM D5185m	0	---	---
Silver ppm	ASTM D5185m >5	0	---	---
Aluminum ppm	ASTM D5185m >5	1	---	---
Lead ppm	ASTM D5185m >5	0	---	---
Copper ppm	ASTM D5185m >5	0	---	---
Tin ppm	ASTM D5185m >5	0	---	---
Vanadium ppm	ASTM D5185m	0	---	---
Cadmium ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	0	---	---
Barium ppm	ASTM D5185m	26	---	---
Molybdenum ppm	ASTM D5185m	2	---	---
Manganese ppm	ASTM D5185m	0	---	---
Magnesium ppm	ASTM D5185m	2	---	---
Calcium ppm	ASTM D5185m	4	---	---
Phosphorus ppm	ASTM D5185m	3	---	---
Zinc ppm	ASTM D5185m	0	---	---
Sulfur ppm	ASTM D5185m	249	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >15	4	---	---
Sodium ppm	ASTM D5185m	3	---	---
Potassium ppm	ASTM D5185m >20	0	---	---
Water %	ASTM D6304	0.003	---	---
ppm Water	ASTM D6304	28	---	---

FLUID CLEANLINESS

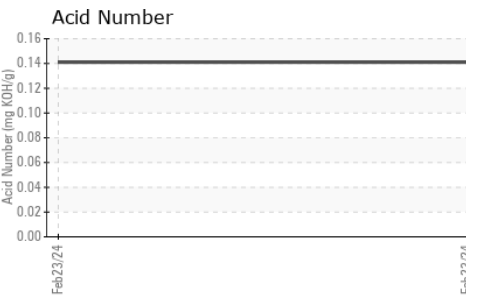
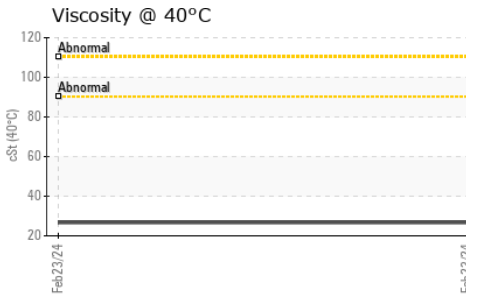
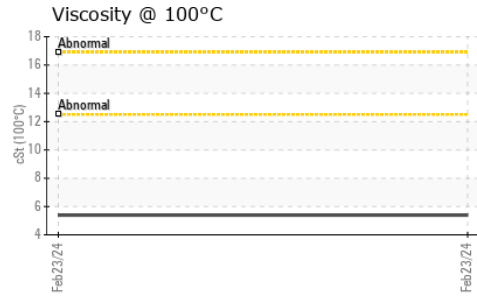
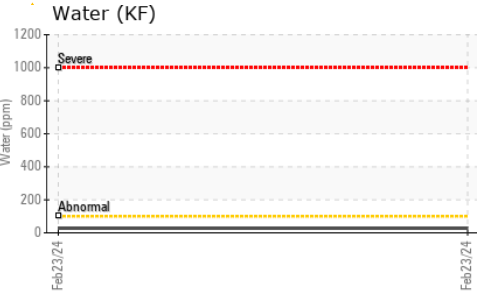
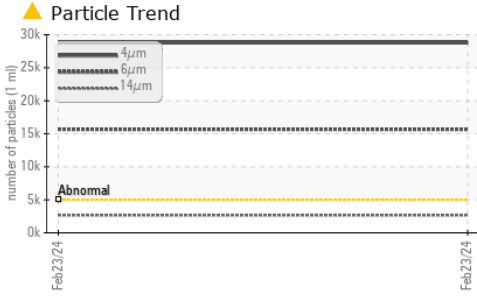
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 28770	---	---
Particles >6µm	ASTM D7647 >1300	▲ 15673	---	---
Particles >14µm	ASTM D7647 >160	▲ 2667	---	---
Particles >21µm	ASTM D7647 >40	▲ 898	---	---
Particles >38µm	ASTM D7647 >10	▲ 139	---	---
Particles >71µm	ASTM D7647 >3	▲ 14	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 22/21/19	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.141	---	---



OIL ANALYSIS REPORT



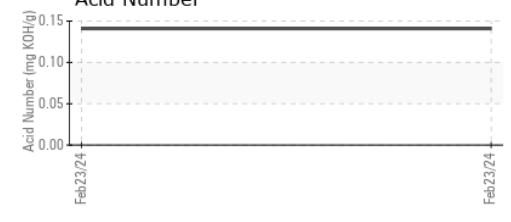
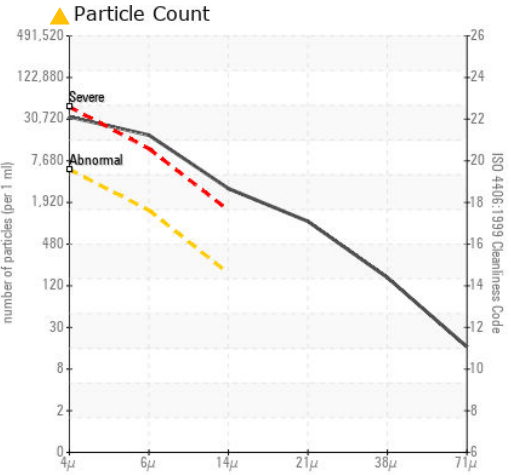
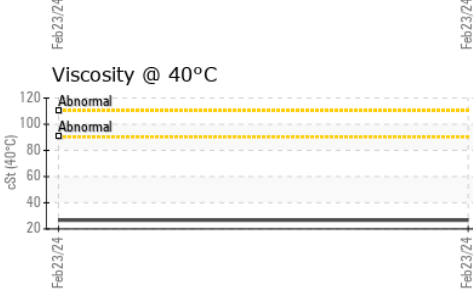
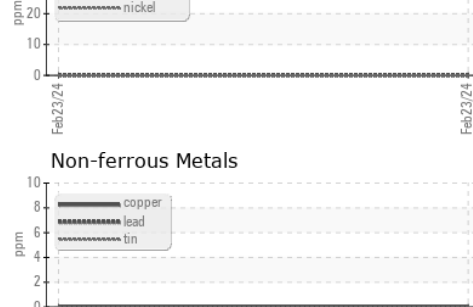
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	26.68	---	---
Visc @ 100°C	cSt	ASTM D445	5.39	---	---
Viscosity Index (VI)	Scale	ASTM D2270	141	---	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC12277555 **Received** : 26 Feb 2024
Lab Number : 06101270 **Tested** : 28 Feb 2024
Unique Number : 10899500 **Diagnosed** : 28 Feb 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: FT-IR, KF, KV100, PrtCount, VI)

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 purchasing@beaconlubricants.com
 T: (814)734-7535
 F: (814)734-3460

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)