



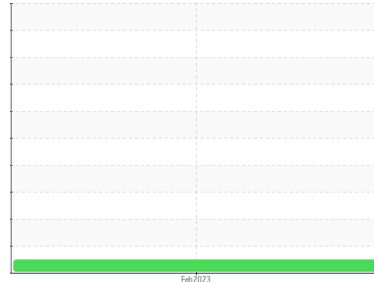
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
MCLAUGHLIN TANK 5
 Component
Quench Oil
 Fluid
TUXTON TEST QUENCH 5209 (4000 GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the quenching fluid.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the quenching fluid is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0661358	---	---
Sample Date	Client Info	14 Feb 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		NORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m		20	---	---
Chromium ppm ASTM D5185m		0	---	---
Nickel ppm ASTM D5185m		0	---	---
Titanium ppm ASTM D5185m		<1	---	---
Silver ppm ASTM D5185m		0	---	---
Aluminum ppm ASTM D5185m		<1	---	---
Lead ppm ASTM D5185m		0	---	---
Copper ppm ASTM D5185m		0	---	---
Tin ppm ASTM D5185m		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		0	---	---
Molybdenum ppm ASTM D5185m		<1	---	---
Manganese ppm ASTM D5185m		<1	---	---
Magnesium ppm ASTM D5185m		2	---	---
Calcium ppm ASTM D5185m		6	---	---
Phosphorus ppm ASTM D5185m		<1	---	---
Zinc ppm ASTM D5185m		0	---	---
Sulfur ppm ASTM D5185m		0	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m		2	---	---
Sodium ppm ASTM D5185m		2	---	---
Potassium ppm ASTM D5185m	>20	0	---	---
Water % ASTM D6304		NEG	---	---

FLUID DEGRADATION

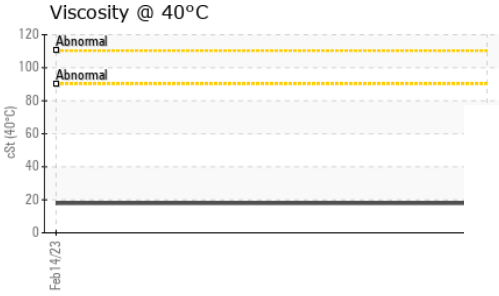
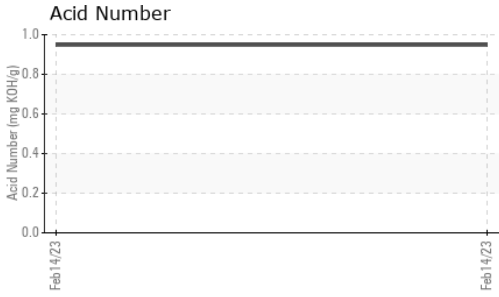
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		0.948	---	---

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	---	---



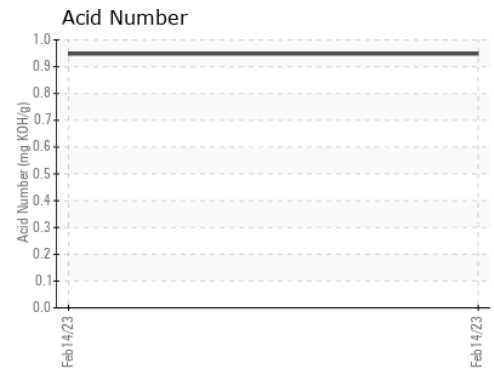
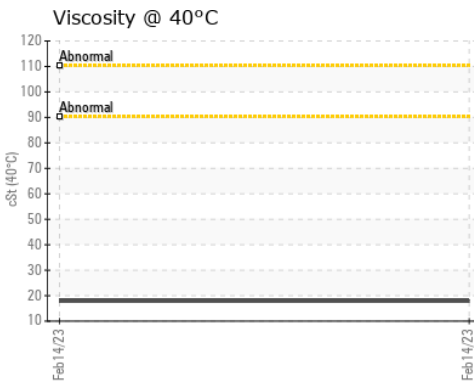
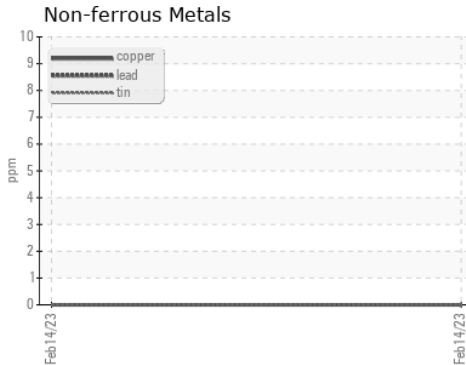
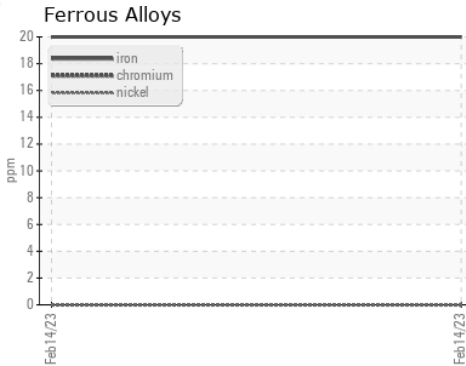
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		17.88	---	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0661358 **Received** : 15 Mar 2023
Lab Number : **05793118** **Diagnosed** : 21 Mar 2023
Unique Number : 10377789 **Diagnostician** : Doug Bogart
Test Package : PLANT

BODYCOTE HEAT TREATING
 8 DWIGHT PARK DRIVE
 SYRACUSE, NY
 US 13209
 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)

T:
F: