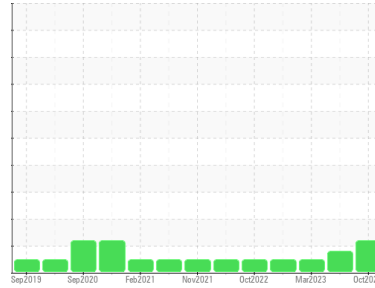




Machine Id
BALER
 Component
Hydraulic System
 Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PTK0003127	PTK0004499	PTK0003114
Sample Date	Client Info	25 Oct 2023	20 Jun 2023	08 Mar 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	Filtered	Filtered	Filtered
Sample Status		ABNORMAL	ABNORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >20	4	3	4
Chromium ppm	ASTM D5185m >10	<1	<1	1
Nickel ppm	ASTM D5185m >10	0	0	0
Titanium ppm	ASTM D5185m	0	0	0
Silver ppm	ASTM D5185m	0	0	0
Aluminum ppm	ASTM D5185m >10	<1	2	<1
Lead ppm	ASTM D5185m >10	<1	0	<1
Copper ppm	ASTM D5185m >75	48	39	51
Tin ppm	ASTM D5185m >10	<1	<1	1
Vanadium ppm	ASTM D5185m	0	0	0
Cadmium ppm	ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	0	0	3
Barium ppm	ASTM D5185m	<1	5	0
Molybdenum ppm	ASTM D5185m	129	122	123
Manganese ppm	ASTM D5185m	0	0	0
Magnesium ppm	ASTM D5185m	2	<1	2
Calcium ppm	ASTM D5185m	67	51	81
Phosphorus ppm	ASTM D5185m	438	435	548
Zinc ppm	ASTM D5185m	455	426	544
Sulfur ppm	ASTM D5185m	2232	2203	3218

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >20	2	1	3
Sodium ppm	ASTM D5185m	0	3	2
Potassium ppm	ASTM D5185m >20	2	0	<1

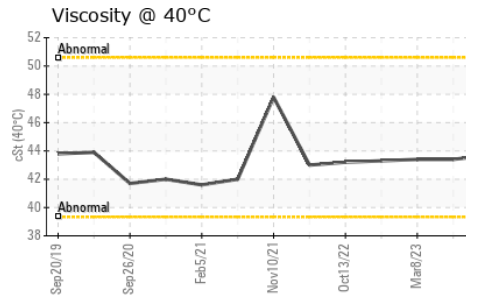
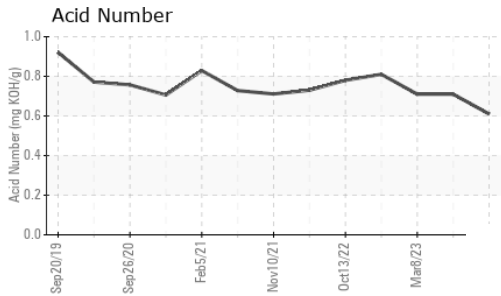
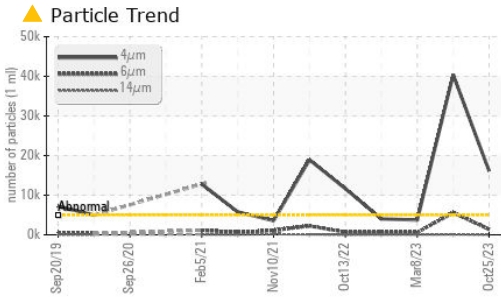
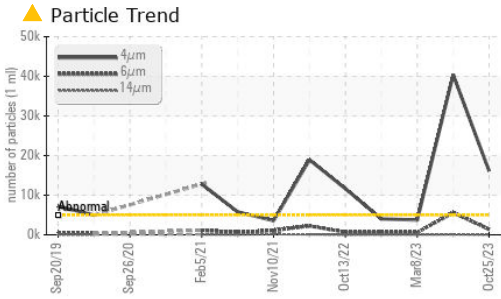
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 16128	40398	3719
Particles >6µm	ASTM D7647 >1300	▲ 1398	▲ 5623	594
Particles >14µm	ASTM D7647 >160	26	104	52
Particles >21µm	ASTM D7647 >40	4	13	11
Particles >38µm	ASTM D7647 >10	0	1	1
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 21/18/12	▲ 23/20/14	19/16/13

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.61	0.71	0.71

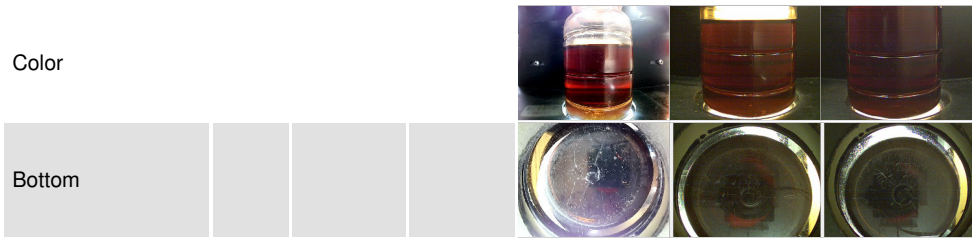
OIL ANALYSIS REPORT



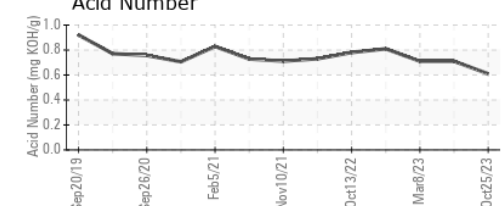
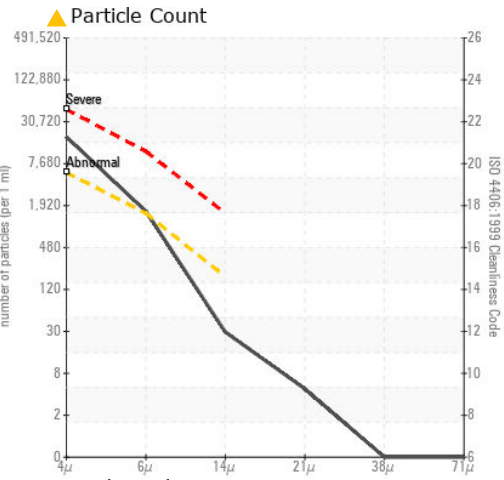
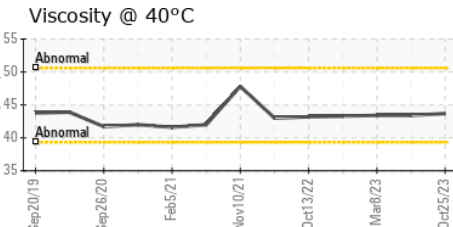
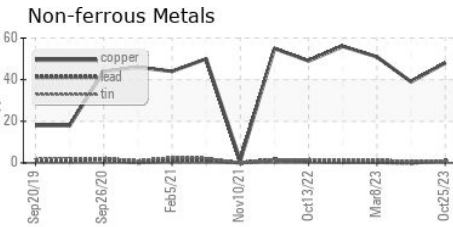
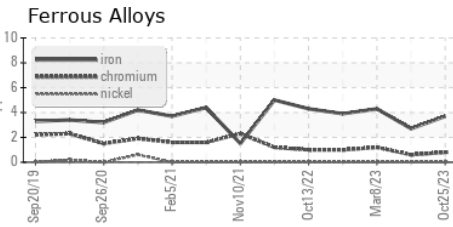
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	43.7	43.4	43.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PTK0003127 **Received** : 02 Nov 2023
Lab Number : 05996661 **Diagnosed** : 03 Nov 2023
Unique Number : 10725021 **Diagnostician** : Wes Davis
Test Package : MOB 2

LIBERTY CARTON
 870 LOUISIANA AVE S
 MINNEAPOLIS, MN
 US 55426
 Contact: BRENT WENTWORTH
 brentwentworth@libertycarton.com
 T: (763)540-9589
 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)