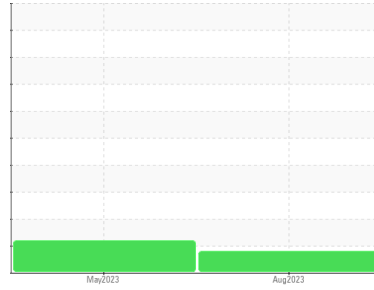




PROBLEM SUMMARY

Sample Rating Trend

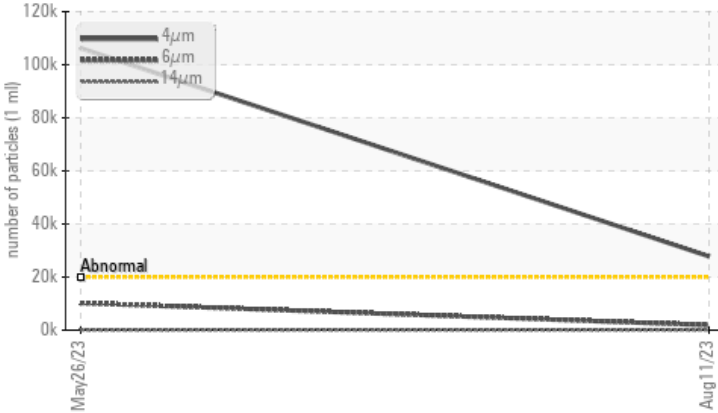
ISO



Area
Paper Machine
 Machine Id
Flatbox Vacuum Pump #2 Gearbox
 Component
Gearbox
 Fluid
MOBIL MOBILGEAR SHC 220 (55 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time.
 Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status		ATTENTION	ABNORMAL	---
Particles >4µm	ASTM D7647 >20000	▲ 27793	▲ 106264	---
Oil Cleanliness	ISO 4406 (c) >21/19/16	▲ 22/18/13	▲ 24/21/12	---

Customer Id: CASASH
 Sample No.: WC0776542
 Lab Number: 05927229
 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

26 May 2023 Diag: Wes Davis

ISO



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report





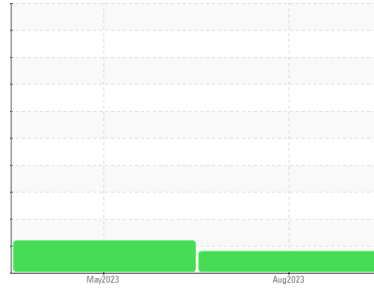
OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area
Paper Machine
 Machine Id
Flatbox Vacuum Pump #2 Gearbox
 Component
Gearbox
 Fluid
MOBIL MOBILGEAR SHC 220 (55 GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0776542	WC0776582	---
Sample Date	Client Info	11 Aug 2023	26 May 2023	---
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	---
Sample Status		ATTENTION	ABNORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	8	13
Chromium	ppm	ASTM D5185m >15	0	0
Nickel	ppm	ASTM D5185m >15	0	<1
Titanium	ppm	ASTM D5185m	<1	0
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m >25	<1	0
Lead	ppm	ASTM D5185m >100	<1	0
Copper	ppm	ASTM D5185m >200	2	2
Tin	ppm	ASTM D5185m >25	0	0
Vanadium	ppm	ASTM D5185m	<1	0
Cadmium	ppm	ASTM D5185m	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0
Barium	ppm	ASTM D5185m	0	0
Molybdenum	ppm	ASTM D5185m	0	0
Manganese	ppm	ASTM D5185m	<1	<1
Magnesium	ppm	ASTM D5185m	4	2
Calcium	ppm	ASTM D5185m	9	9
Phosphorus	ppm	ASTM D5185m	458	476
Zinc	ppm	ASTM D5185m	9	8
Sulfur	ppm	ASTM D5185m	2591	2671

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	19	22
Sodium	ppm	ASTM D5185m	1	0
Potassium	ppm	ASTM D5185m >20	2	1
Water	%	ASTM D6304 >0.2	0.006	0.011
ppm Water	ppm	ASTM D6304 >2000	61.7	111.9

FLUID CLEANLINESS

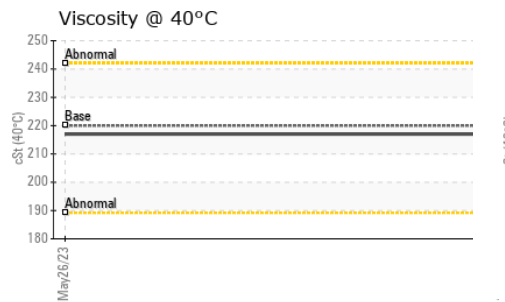
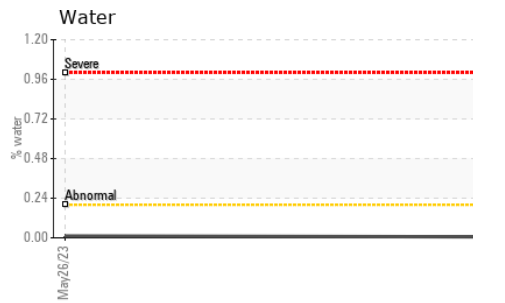
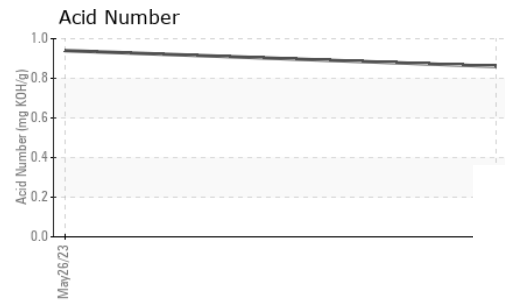
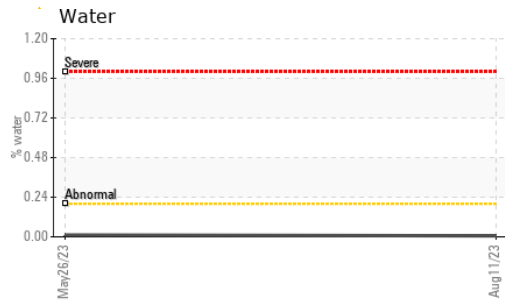
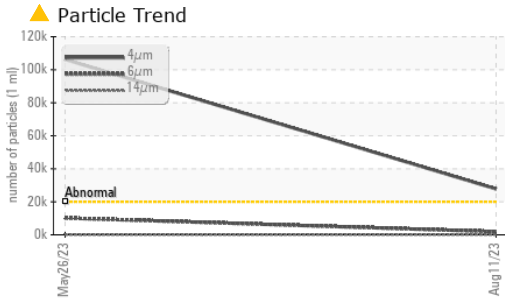
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	▲ 27793	▲ 106264	---
Particles >6µm	ASTM D7647 >5000	1909	▲ 10195	---
Particles >14µm	ASTM D7647 >640	58	39	---
Particles >21µm	ASTM D7647 >160	12	4	---
Particles >38µm	ASTM D7647 >40	0	1	---
Particles >71µm	ASTM D7647 >10	0	0	---
Oil Cleanliness	ISO 4406 (c) >21/19/16	▲ 22/18/13	▲ 24/21/12	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	0.94



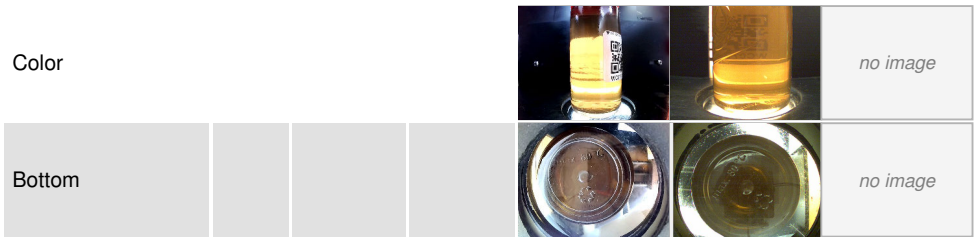
OIL ANALYSIS REPORT



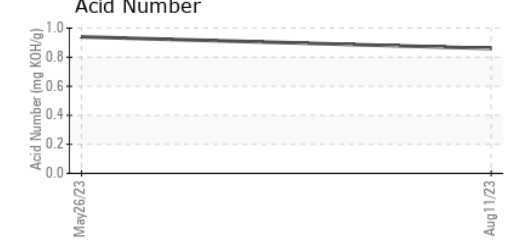
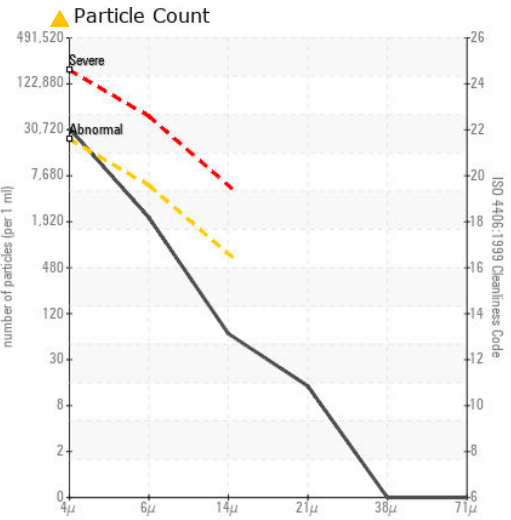
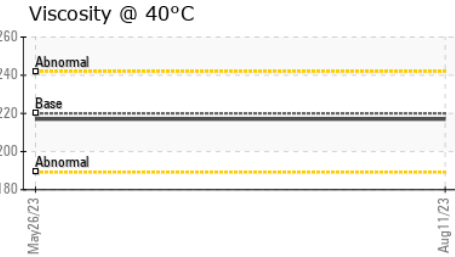
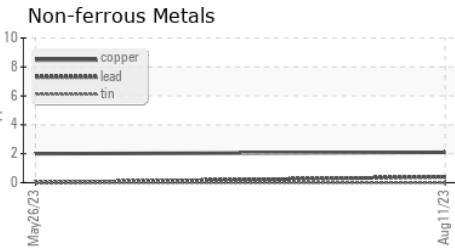
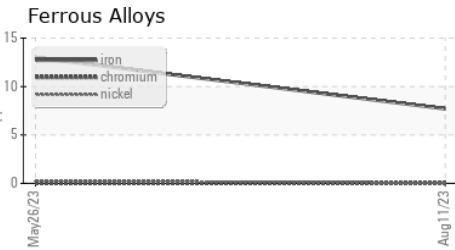
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	217	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0776542 Received : 17 Aug 2023
 Lab Number : 05927229 Diagnosed : 18 Aug 2023
 Unique Number : 10607176 Diagnostician : Don Baldrige
 Test Package : PLANT

CASCADES CONTAINERBOARD PACKAGING - BEARPACK PROJECT
 10026 OLD RIDGE ROAD
 ASHLAND, VA
 US 23005
 Contact: MARC-ANDRE HUBERT
 marc-andre_hubert@cascades.com

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: