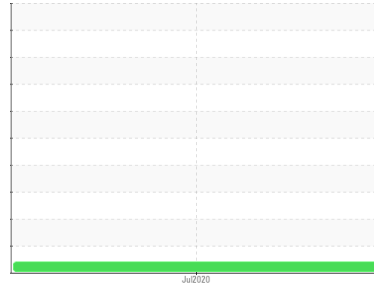




OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area

P3

Machine Id

3543-C CRYSTALLIZER GEARBOX

Component

Agitator Gearbox

Fluid

MOBIL MOBILGEAR 600 XP ISO 150 (43 GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of silt (particulates < 6 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	WC0472490	---	---
Sample Date	Client Info	30 Jul 2020	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	12	---
Chromium	ppm	ASTM D5185m >10	<1	---
Nickel	ppm	ASTM D5185m >10	0	---
Titanium	ppm	ASTM D5185m	0	---
Silver	ppm	ASTM D5185m	<1	---
Aluminum	ppm	ASTM D5185m >25	<1	---
Lead	ppm	ASTM D5185m >100	0	---
Copper	ppm	ASTM D5185m >50	<1	---
Tin	ppm	ASTM D5185m >10	<1	---
Antimony	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	19	---
Barium	ppm	ASTM D5185m	<1	---
Molybdenum	ppm	ASTM D5185m	0	---
Manganese	ppm	ASTM D5185m	2	---
Magnesium	ppm	ASTM D5185m	<1	---
Calcium	ppm	ASTM D5185m	4	---
Phosphorus	ppm	ASTM D5185m	298	---
Zinc	ppm	ASTM D5185m	28	---
Sulfur	ppm	ASTM D5185m	18663	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<1	---
Sodium	ppm	ASTM D5185m	<1	---
Potassium	ppm	ASTM D5185m >20	<1	---
Water	%	ASTM D6304 >0.1	0.011	---
ppm Water	ppm	ASTM D6304 >1000	110.5	---

FLUID CLEANLINESS

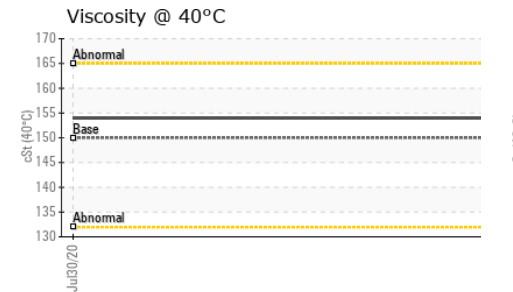
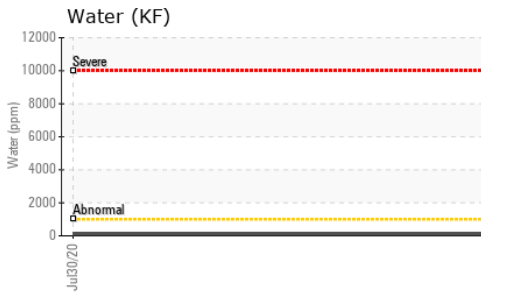
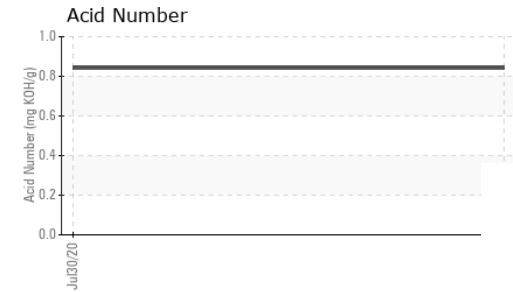
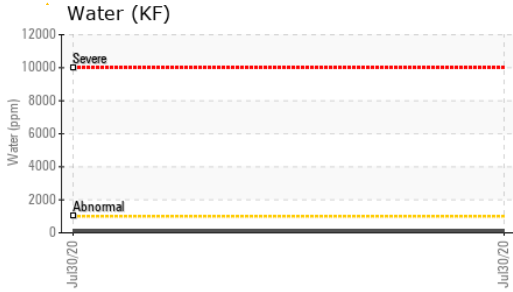
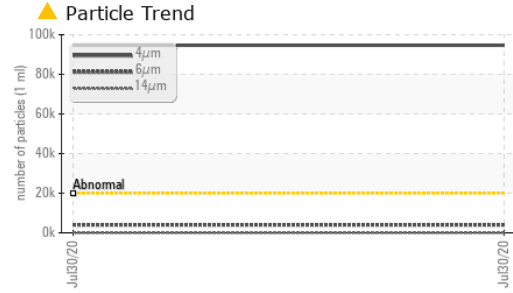
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	▲ 94649	---	---
Particles >6µm	ASTM D7647 >5000	3995	---	---
Particles >14µm	ASTM D7647 >640	27	---	---
Particles >21µm	ASTM D7647 >160	3	---	---
Particles >38µm	ASTM D7647 >40	0	---	---
Particles >71µm	ASTM D7647 >10	0	---	---
Oil Cleanliness	ISO 4406 (c) >21/19/16	▲ 24/19/12	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.842	---



OIL ANALYSIS REPORT



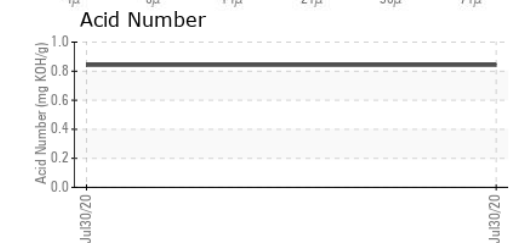
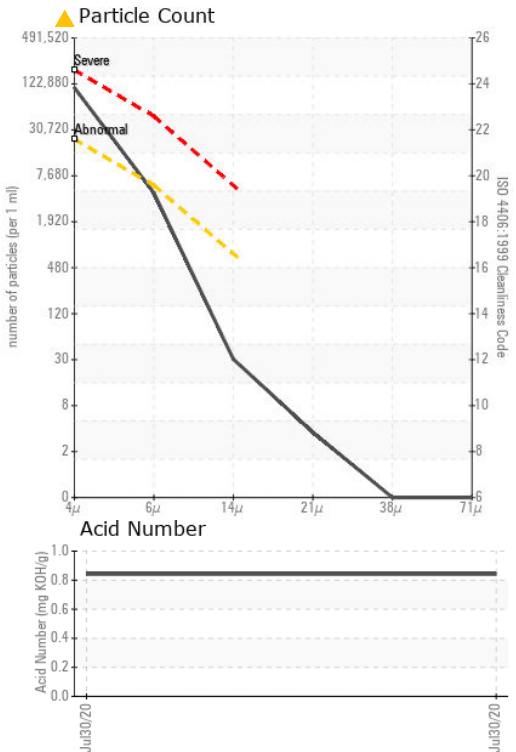
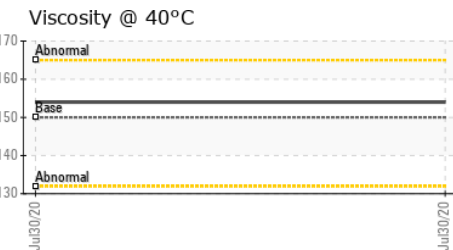
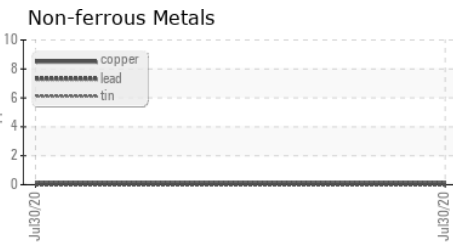
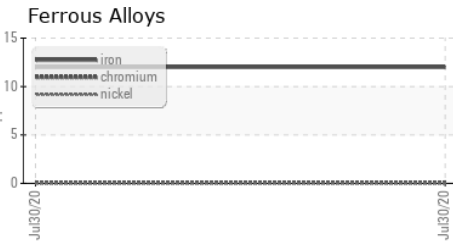
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	154	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0472490 **Received** : 05 Aug 2020
Lab Number : 05036295 **Diagnosed** : 08 Aug 2020
Unique Number : 9126465 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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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