



OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area

P3

Machine Id

3543-D Crystallizer Gearbox (S/N N/A)

Component

Agitator Gearbox

Fluid

Mobilgear 629 (44 QTS)

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Changed oil and installed sampling kit)

Wear

All component wear rates are normal.

▲ Contamination

There is a high 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	WC0472482	---	---
Sample Date	Client Info	15 Jul 2020	---	---
Machine Age	hrs	0	---	---
Oil Age	hrs	500	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >150	13	---	---
Chromium	ppm	ASTM D5185m >10	0	---	---
Nickel	ppm	ASTM D5185m >10	<1	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m	3	---	---
Aluminum	ppm	ASTM D5185m >25	0	---	---
Lead	ppm	ASTM D5185m >100	0	---	---
Copper	ppm	ASTM D5185m >50	<1	---	---
Tin	ppm	ASTM D5185m >10	0	---	---
Antimony	ppm	ASTM D5185m	0	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	<1	---	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	28	---	---
Barium	ppm	ASTM D5185m	1	---	---
Molybdenum	ppm	ASTM D5185m	0	---	---
Manganese	ppm	ASTM D5185m	2	---	---
Magnesium	ppm	ASTM D5185m	<1	---	---
Calcium	ppm	ASTM D5185m	8	---	---
Phosphorus	ppm	ASTM D5185m	299	---	---
Zinc	ppm	ASTM D5185m	26	---	---
Sulfur	ppm	ASTM D5185m	12774	---	---

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	0.012	---	---
ppm Water	ppm	ASTM D6304 >1000	121.5	---	---

FLUID CLEANLINESS

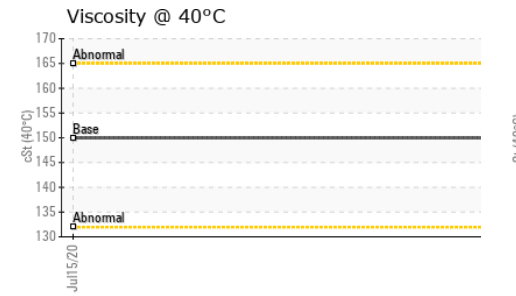
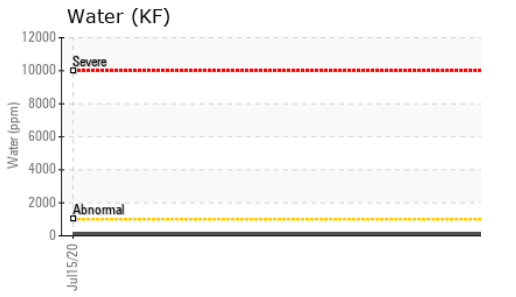
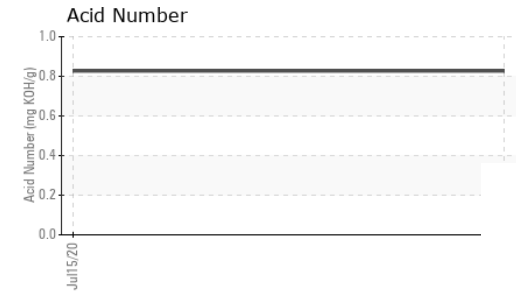
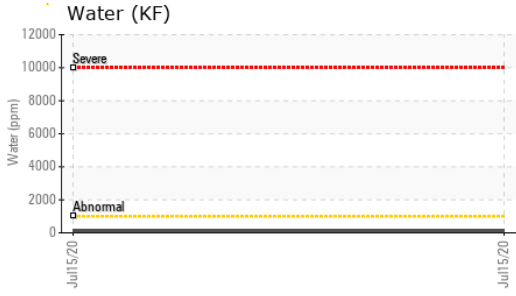
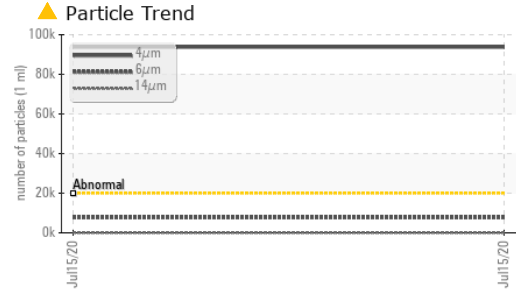
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	▲ 93769	---	---
Particles >6µm	ASTM D7647 >5000	▲ 7717	---	---
Particles >14µm	ASTM D7647 >640	52	---	---
Particles >21µm	ASTM D7647 >160	8	---	---
Particles >38µm	ASTM D7647 >40	0	---	---
Particles >71µm	ASTM D7647 >10	0	---	---
Oil Cleanliness	ISO 4406 (c) >21/19/16	▲ 24/20/13	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.827	---	---



OIL ANALYSIS REPORT



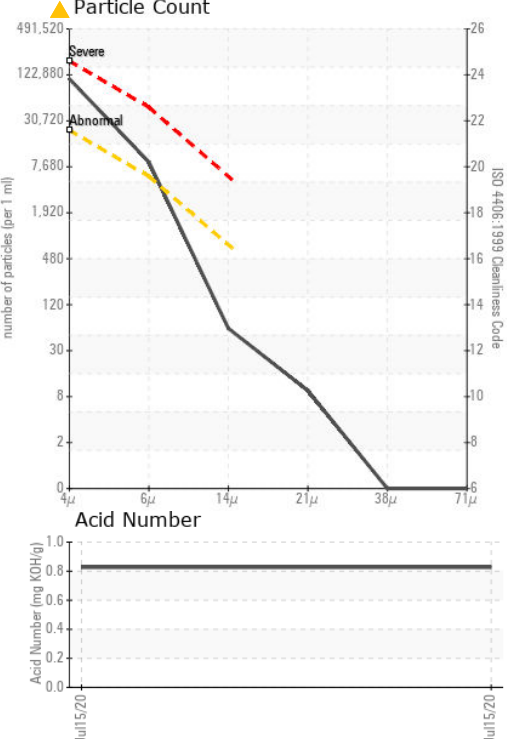
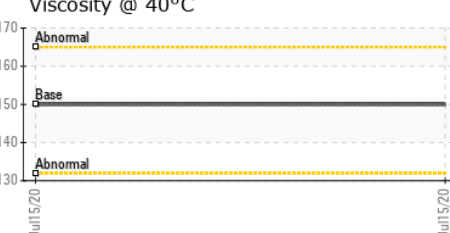
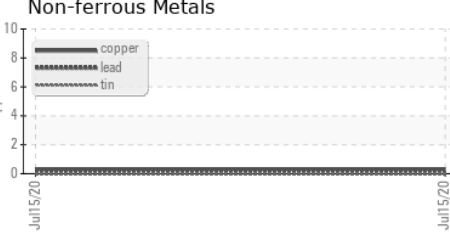
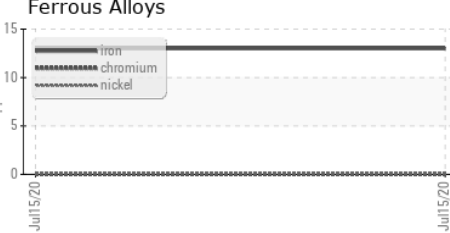
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0472482 **Received** : 20 Jul 2020
Lab Number : 05023105 **Diagnosed** : 21 Jul 2020
Unique Number : 9103265 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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 RALEIGH, NC
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 T:
 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)