



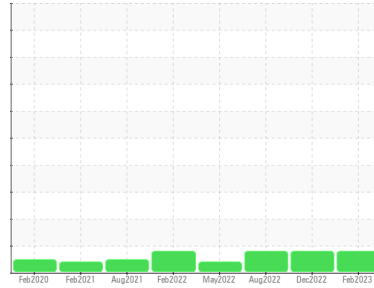
OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area
P1
 Machine Id
3201-A - 3200-A CRYSTALLIZER
 Component
Gearbox
 Fluid
MOBIL MOBILGEAR 600 XP ISO 150 (27 QTS)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

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	WC0784162	WC0752477	WC0723562
Sample Date	Client Info	24 Feb 2023	01 Dec 2022	08 Aug 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ATTENTION	ATTENTION	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	2	4	2
Chromium	ppm	ASTM D5185m >15	0	0	0
Nickel	ppm	ASTM D5185m >15	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	6	<1
Aluminum	ppm	ASTM D5185m >25	<1	0	0
Lead	ppm	ASTM D5185m >100	0	0	0
Copper	ppm	ASTM D5185m >200	0	<1	0
Tin	ppm	ASTM D5185m >25	0	0	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	2	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	20	16	26
Barium	ppm	ASTM D5185m	4	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	1	<1	0
Magnesium	ppm	ASTM D5185m	10	2	0
Calcium	ppm	ASTM D5185m	4	3	0
Phosphorus	ppm	ASTM D5185m	324	347	329
Zinc	ppm	ASTM D5185m	25	11	0
Sulfur	ppm	ASTM D5185m	16232	15784	14078

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	<1	<1	0
Sodium	ppm	ASTM D5185m	0	1	0
Potassium	ppm	ASTM D5185m >20	<1	0	0
Water	%	ASTM D6304 >0.2	0.009	0.018	0.012
ppm Water	ppm	ASTM D6304 >2000	92.5	189.5	124.4

FLUID CLEANLINESS

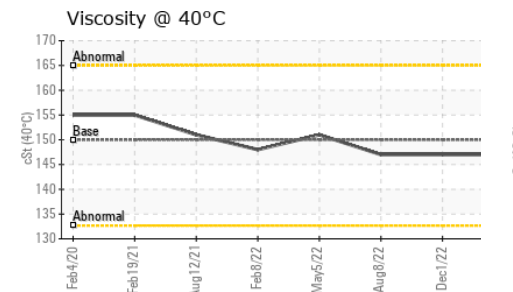
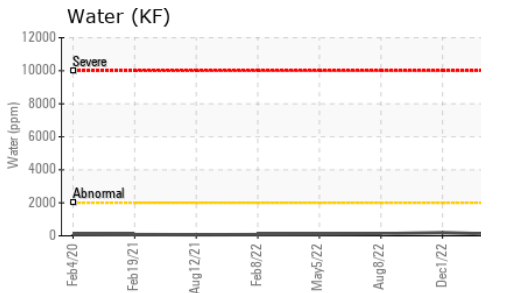
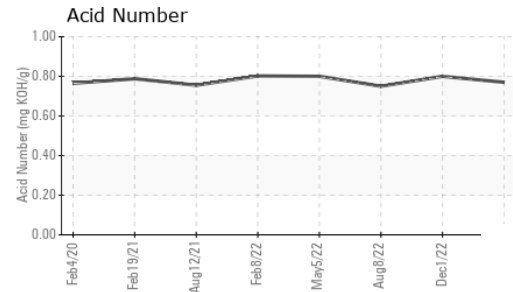
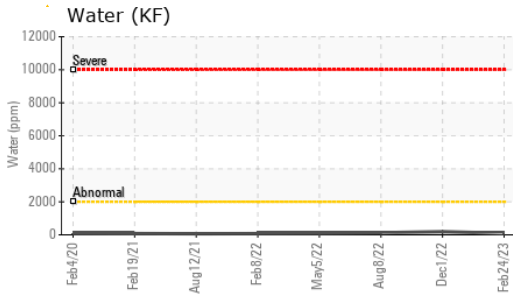
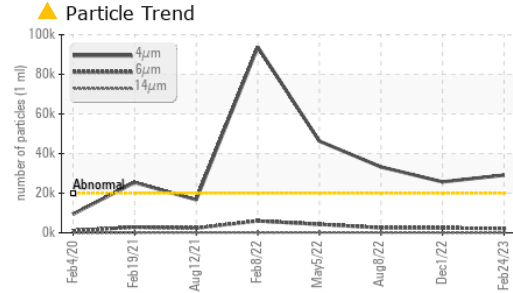
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	▲ 29124	▲ 25701	▲ 33239
Particles >6µm	ASTM D7647 >5000	2215	2422	2574
Particles >14µm	ASTM D7647 >640	45	54	95
Particles >21µm	ASTM D7647 >160	7	6	13
Particles >38µm	ASTM D7647 >40	0	0	0
Particles >71µm	ASTM D7647 >10	0	0	0
Oil Cleanliness	ISO 4406 (c) >21/19/16	▲ 22/18/13	▲ 22/18/13	▲ 22/19/14

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.77	0.80	0.75



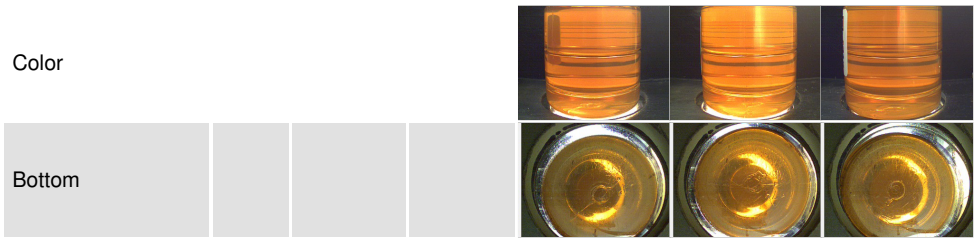
OIL ANALYSIS REPORT



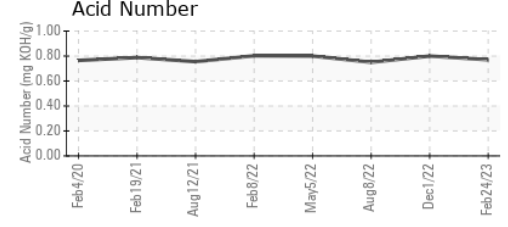
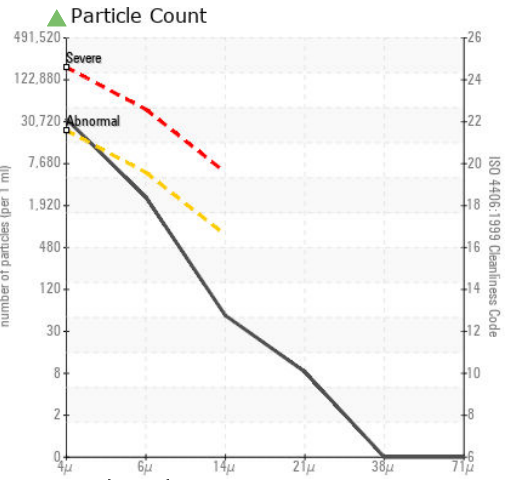
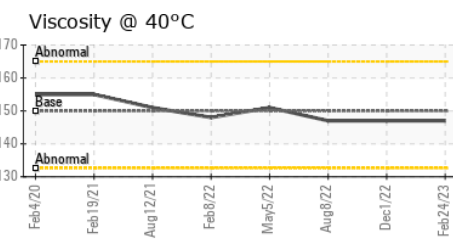
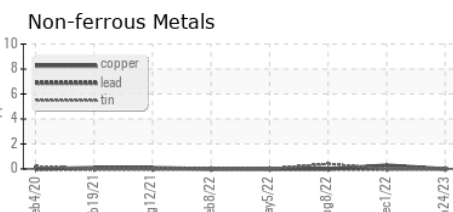
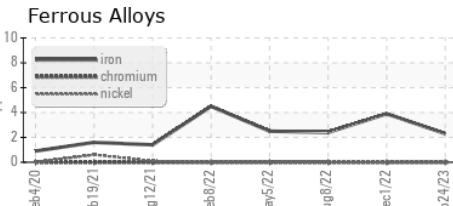
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	147	147

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0784162 **Received** : 28 Feb 2023
Lab Number : 05779463 **Diagnosed** : 01 Mar 2023
Unique Number : 10359133 **Diagnostician** : Wes Davis
Test Package : PLANT

AJINOMOTO USA
 4020 AJINOMOTO DRIVE
 RALEIGH, NC
 US 27610
 Contact: Michael Thompson
 thompsonm@ajiusa.com
 T: (919)723-2142
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Certificate L2367
 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)