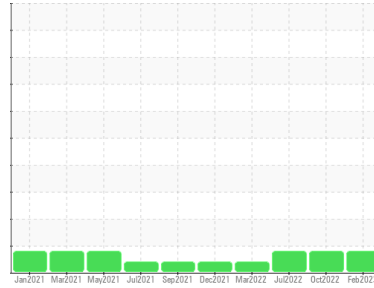




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
Separation
 Machine Id
2401-B

Component
Agitator Gearbox
 Fluid

MOBIL MOBILGEAR 600 XP ISO 150 (--- 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 < 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	WC0752489	WC0724723	WC0687523
Sample Date	Client Info	03 Feb 2023	13 Oct 2022	18 Jul 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 >150	1	0	1
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	4	7	0
Lead	ppm	ASTM D5185m >100	0	2	0
Copper	ppm	ASTM D5185m >50	<1	0	0
Tin	ppm	ASTM D5185m >10	0	<1	0
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	22	14	24
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0
Magnesium	ppm	ASTM D5185m	<1	5	<1
Calcium	ppm	ASTM D5185m	<1	0	<1
Phosphorus	ppm	ASTM D5185m	312	340	306
Zinc	ppm	ASTM D5185m	6	5	6
Sulfur	ppm	ASTM D5185m	18508	19261	17566

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	<1	<1	<1
Sodium	ppm	ASTM D5185m	<1	1	<1
Potassium	ppm	ASTM D5185m >20	<1	4	<1
Water	%	ASTM D6304 >0.1	0.009	0.007	0.009
ppm Water	ppm	ASTM D6304 >1000	99.0	76.5	97.3

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	▲ 31297	▲ 28548	▲ 23961
Particles >6µm	ASTM D7647 >5000	4971	3171	3019
Particles >14µm	ASTM D7647 >640	104	76	72
Particles >21µm	ASTM D7647 >160	13	14	12
Particles >38µm	ASTM D7647 >40	0	1	2
Particles >71µm	ASTM D7647 >10	0	0	1
Oil Cleanliness	ISO 4406 (c) >21/19/16	▲ 22/19/14	▲ 22/19/13	▲ 22/19/13

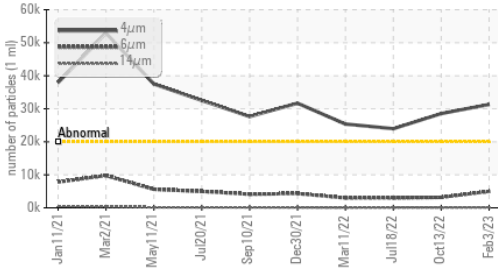
FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.74	0.76	0.76

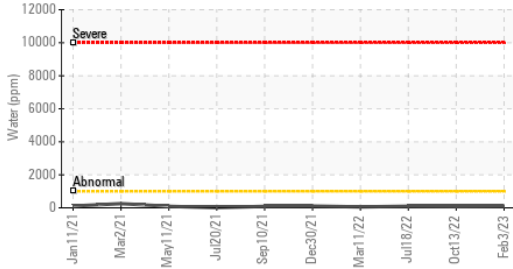


OIL ANALYSIS REPORT

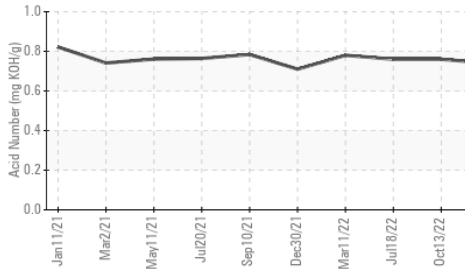
Particle Trend



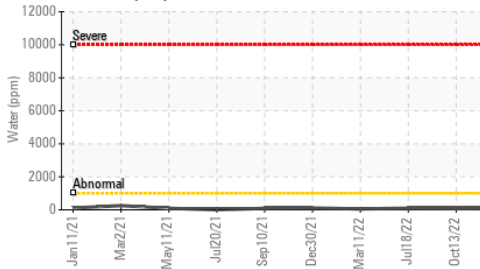
Water (KF)



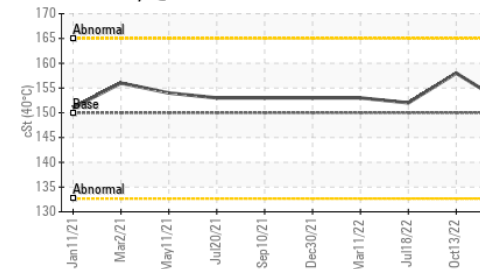
Acid Number



Water (KF)



Viscosity @ 40°C



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	152	158

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

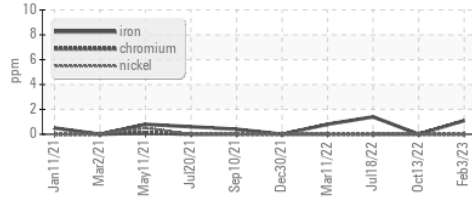


Bottom

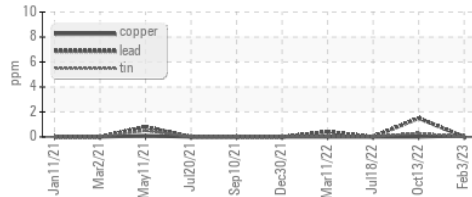


GRAPHS

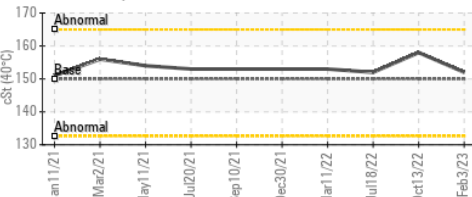
Ferrous Alloys



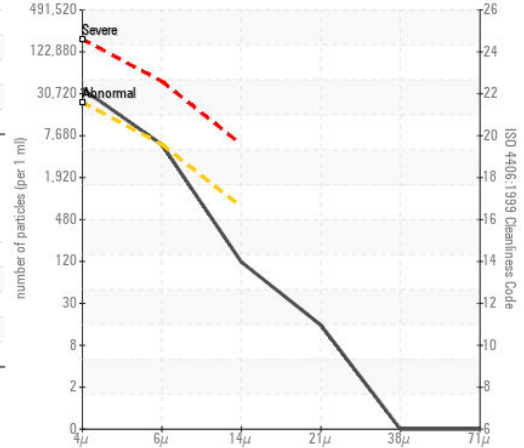
Non-ferrous Metals



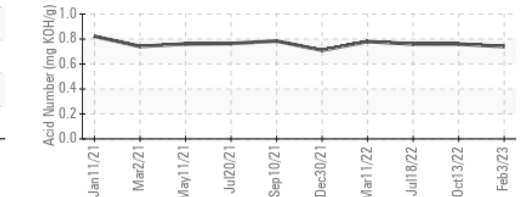
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0752489 **Received** : 07 Feb 2023
Lab Number : 05761368 **Diagnosed** : 08 Feb 2023
Unique Number : 10325975 **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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