

PROBLEM SUMMARY

Sample Rating Trend

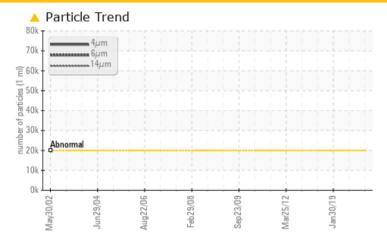
ISO -------

T-302 (S/N 509195-1)

Component **Agitator Gearbox**

MOBIL MOBILGEAR 630 (3 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TES	ST RESULTS				
Sample Status			ABNORMAL	NORMAL	NORMAL
Particles >4µm	ASTM D7647	>20000	69935		
Particles >6μm	ASTM D7647	>5000	9438		
Oil Cleanliness	ISO 4406 (c)	>21/19/16	23/20/15		

Customer Id: AVEMIL Sample No.: WC05905442 Lab Number: 05905442 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

14 Feb 2021 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



30 Jan 2019 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



18 Sep 2013 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

ISO

T-302 (S/N 509195-1)

Agitator Gearbox

MOBIL MOBILGEAR 630 (3 GAL)

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 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 acceptable for the time in service.

SAMPLE INFORMATION method limit/base current history1 history2 Sample Date Client Info WC05905442 WC12341353 WC12341360 Machine Age mths Client Info 0 0 0 Oil Changed Client Info 0 0 0 0 Oil Changed Client Info NA N/A N/A N/A Sample Status method Immilibrase current history1 history2 Iron ppm ASTM D5185m >150 8 7 6 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >10 0 0 1 Silver ppm ASTM D5185m >10 0 0 1 Aluminum ppm ASTM D5185m >50 3 2 3 Tin ppm ASTM D5185m >50 3 2 3 Ti			ay2002 Jur	2004 Aug2006 Feb2	008 Sep2009 Mar2012 Ja	an2019	
Sample Date Client Info Client Info O	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age mths Client Info 0 0 0 0 0 0 0 0 0	Sample Number		Client Info		WC05905442	WCI2341353	WCI2341360
Oil Age mths Client Info N/A	Sample Date		Client Info		23 Jul 2023	14 Feb 2021	30 Jan 2019
Oil Changed Sample Status Client Info Sample Status N/A ABNORMAL NORMAL NORMAL NORMAL N/A NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >150 8 7 6 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 10 0 0 0 Silver ppm ASTM D5185m 10 0 0 0 Aluminum ppm ASTM D5185m >10 0 <1 <1 Lead ppm ASTM D5185m >10 0 <1 <1 Copper ppm ASTM D5185m >10 0 <1 0 Vanadium ppm ASTM D5185m >10 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 1 1 <th>Machine Age</th> <th>mths</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Machine Age	mths	Client Info		0	0	0
Sample Status method limit/base current history1 history2 Iron ppm ASTM D5185m >150 8 7 6 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >10 0 0 0 Silver ppm ASTM D5185m >10 0 0 0 Silver ppm ASTM D5185m >10 0 0 0 Aluminum ppm ASTM D5185m >10 0 1 1 Aluminum ppm ASTM D5185m >10 0 1 1 Lead ppm ASTM D5185m >10 0 <1 0 Copper ppm ASTM D5185m >10 0 <1 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 1 1 1	Oil Age	mths	Client Info		0	0	0
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Iron	Sample Status				ABNORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >10 0 0 <1 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >25 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>150		7	6
Titanium	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver	Nickel	ppm	ASTM D5185m	>10		0	<1
Aluminum ppm ASTM D5185m >25 0 <1		ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >100 <1 0 <1 Copper ppm ASTM D5185m >50 3 2 3 Tin ppm ASTM D5185m >10 0 <1 0 Antimony ppm ASTM D5185m >5 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m <1 <1 <1 <1 Boron ppm ASTM D5185m 1 11 1 2 Barium ppm ASTM D5185m <1 0 <1 <1 Molybdenum ppm ASTM D5185m 0 <0 <0 <0 Magnesium ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 0 <0 <0 <0 Calcium ppm ASTM D5185m 1 2 3	Silver	ppm				<1	0
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Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m <1	Tin	ppm	ASTM D5185m	>10	0	<1	0
Cadmium ppm ASTM D5185m <1	Antimony	ppm	ASTM D5185m	>5		0	0
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Boron ppm ASTM D5185m 1 11 2 Barium ppm ASTM D5185m <1	Cadmium	ppm	ASTM D5185m		<1	<1	<1
Barium ppm ASTM D5185m <1	ADDITIVES		method	limit/base	current	history1	history2
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Manganese ppm ASTM D5185m 0 <1							
Magnesium ppm ASTM D5185m 0 0 0 Calcium ppm ASTM D5185m 1 2 3 Phosphorus ppm ASTM D5185m 225 214 209 Zinc ppm ASTM D5185m 284 227 220 Sulfur ppm ASTM D5185m 17923 13762 19624 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 <1 <1 1 Sodium ppm ASTM D5185m >20 1 0 <1 Potassium ppm ASTM D5185m >20 1 0 <1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 69935 Particles >51 µm ASTM D7647 >640 248 Particles >21	Barium	ppm	ASTM D5185m		<1	0	<1
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Zinc ppm ASTM D5185m 284 227 220 Sulfur ppm ASTM D5185m 17923 13762 19624 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 <1 <1 1 Sodium ppm ASTM D5185m 0 2 1 1 Potassium ppm ASTM D5185m >20 1 0 <1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >20000 69935 Particles >6μm ASTM D7647 >5000 9438 Particles >14μm ASTM D7647 >640 248 Particles >21μm ASTM D7647 >160 47 Particles >71μm ASTM D7647 >40 1 <th>Molybdenum Manganese</th> <th>ppm</th> <th>ASTM D5185m ASTM D5185m</th> <th></th> <th>0</th> <th>0 <1</th> <th>0 <1</th>	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		0	0 <1	0 <1
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Particles >38μm ASTM D7647 >40 1 Particles >71μm ASTM D7647 >10 0 Oil Cleanliness ISO 4406 (c) >21/19/16 23/20/15	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m	>50 >20 limit/base >20000	0 0 0 1 225 284 17923 current <1 0 1 current ▲ 69935	0 <1 0 2 214 227 13762 history1 <1 2 0 history1	0 <1 0 3 209 220 19624 history2 1 1 <1 history2
Particles >38μm ASTM D7647 >40 1 Particles >71μm ASTM D7647 >10 0 Oil Cleanliness ISO 4406 (c) >21/19/16 23/20/15	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m MEthod ASTM D5185m	>50 >20 limit/base >20000 >5000	0 0 0 1 225 284 17923 current <1 0 1 current △ 69935 △ 9438	0 <1 0 2 214 227 13762 history1 <1 2 0 history1	0 <1 0 3 209 220 19624 history2 1 <1 <1
Particles >71μm ASTM D7647 >10 0 Oil Cleanliness ISO 4406 (c) >21/19/16 ▲ 23/20/15	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m METHOD ASTM D5185m METHOD ASTM D5185m ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >640	0 0 0 1 225 284 17923	0 <1 0 2 214 227 13762 history1 <1 2 0 history1	0 <1 0 3 209 220 19624 history2 1 1 <1 history2
Oil Cleanliness ISO 4406 (c) >21/19/16 23/20/15	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >640 >160	0 0 0 1 225 284 17923 current <1 0 1 current △ 69935 △ 9438 248 47	0 <1 0 2 214 227 13762 history1 <1 2 0 history1	0
FLUID DEGRADATION method limit/base current history1 history2	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >640 >160 >40	0 0 0 1 225 284 17923 current <1 0 1 current △ 69935 △ 9438 248 47	0 <1 0 2 214 227 13762 history1 <1 2 0 history1	0 <1 0 3 209 220 19624 history2 1 1 <1
	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >640 >160 >40 >10	0 0 0 1 225 284 17923 current <1 0 1 current ▲ 69935 ▲ 9438 248 47 1 0	0 <1 0 2 214 227 13762 history1 <1 2 0 history1	0 <1 0 3 209 220 19624 history2 1 1 <1
Acid Number (AN) mg KOH/g ASTM D8045 0.57 0.546 0.583	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647	>50 >20 limit/base >20000 >5000 >640 >160 >40 >10 >21/19/16	0 0 0 1 225 284 17923 current <1 0 1 current ▲ 69935 ▲ 9438 248 47 1 0 ▲ 23/20/15	0 <1 0 2 214 227 13762 history1 <1 2 0 history1	0 <1 0 3 209 220 19624 history2 1 1 <1



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

180

cSt 200

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC05905442 : 05905442

: 10566798

: 24 Jul 2023 Received Diagnosed : 25 Jul 2023 Diagnostician

: Angela Borella

Mar25/12

₤0.60 흔 0.40

≥ 0.20 0.00 kg

Test Package : IND 2 (Additional Tests: 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)

AVERY DENNISON CHEMICAL DIVISION

171 DRAKETOWN RD MILL HALL, PA

US 17751 Contact: DONALD EYER

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