

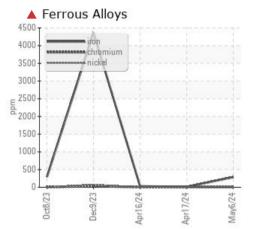
# WEAR

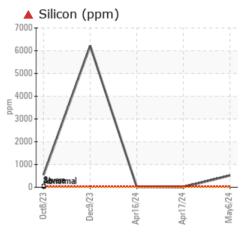
## Area Building 12 Machine 10 Roll Crusher 3

Northwest Bearing

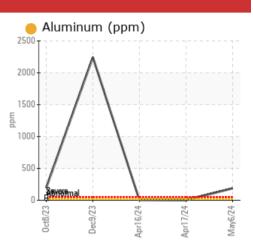
MOBIL MOBILGEAR 600 XP ISO 68 (3 GAL)

# COMPONENT CONDITION SUMMARY





**PROBLEM SUMMARY** 



WEAR

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	NORMAL	ABNORMAL	
Iron	ppm	ASTM D5185m	>20	<b>A</b> 286	12	<u> </u>	
Silicon	ppm	ASTM D5185m	>15	<b>4</b> 517	5	<b>1</b> 7	
Silt	scalar	*Visual	NONE		NONE	NONE	

Customer Id: THRPIT Sample No.: WC0936868 Lab Number: 06177806 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 <u>customerservice@wearcheck.com</u>

	RECOM		ACTIONS
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Action Inspect Wear Source	Status	Date	Done By	<b>Description</b> We advise that you inspect for the source(s) of wear.
inspect wear course			?	
Resample			?	We recommend an early resample to monitor this condition.
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.

### HISTORICAL DIAGNOSIS



### 17 Apr 2024 Diag: Sean Felton

16 Apr 2024 Diag: Don Baldridge

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

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has

(coarse dirt) ingress. The oil viscosity is lower than normal. The AN level is acceptable for this fluid.

been noted. Resample at the next service interval to monitor. The iron level has decreased, but is still abnormal. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate







#### 09 Dec 2023 Diag: Jonathan Hester



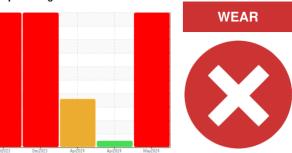
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



Area Building 12 Machine to Roll Crusher 3

Northwest Bearing Fluid MOBIL MOBILGEAR 600 XP ISO 68 (3 GAL)

### DIAGNOSIS

#### A Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### A Wear

Gear wear is indicated.

### Contamination

There is a moderate amount of visible silt present in the sample. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress.

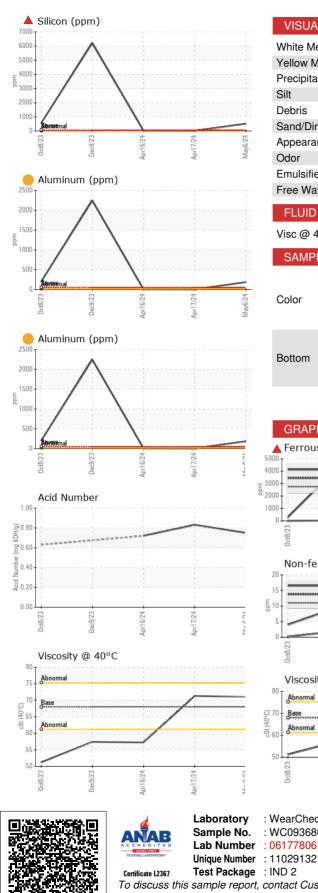
### Fluid Condition

The AN level is acceptable for this fluid.

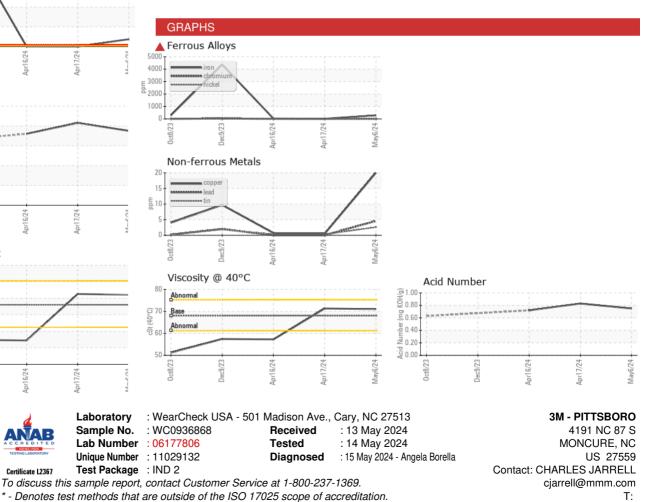
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0936868	WC0901942	WC0901941
Sample Date		Client Info		06 May 2024	17 Apr 2024	16 Apr 2024
Machine Age	hrs	Client Info		2170	2170	2170
Oil Age	hrs	Client Info		2170	2170	2170
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>4</b> 286	12	<b>2</b> 8
Chromium	ppm	ASTM D5185m	>20	1	<1	0
Nickel	ppm	ASTM D5185m	>20	3	<1	<1
Titanium	ppm	ASTM D5185m		14	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<mark> </mark> 188	1	<b>5</b>
Lead	ppm	ASTM D5185m	>20	5	0	0
Copper	ppm	ASTM D5185m	>20	20	<1	<1
Tin	ppm	ASTM D5185m	>20	3	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		34	36	30
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		5	0	<1
Magnesium	ppm	ASTM D5185m		78	<1	2
Calcium	ppm	ASTM D5185m		91	4	5
Phosphorus	ppm	ASTM D5185m		343	352	318
Zinc	ppm	ASTM D5185m		2	0	0
Sulfur	ppm	ASTM D5185m		9651	8948	9001
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>4</b> 517	5	<b>1</b> 7
Sodium	ppm	ASTM D5185m		57	<1	5
Potassium	ppm	ASTM D5185m	>20	20	2	3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.75	0.83	0.72



# **OIL ANALYSIS REPORT**



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	A MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
FLUID PROPERT Visc @ 40°C	IES cSt	method ASTM D445	limit/base 68	current 71.0	history1 71.3	history2 57.2
	cSt				· · · · ·	
Visc @ 40°C	cSt	ASTM D445	68	71.0	71.3	57.2



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Submitted By: JORDAN TUTEN

Page 4 of 4

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