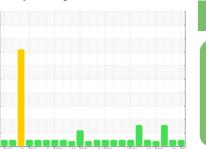


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# HEWIT ROBINS JAW CRUSHER 5011 NON DRIVE (S/N C70541302)

Component Inner Bearing

**MOBIL MOBILGEAR 600 XP 220 (45 GAL)** 

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

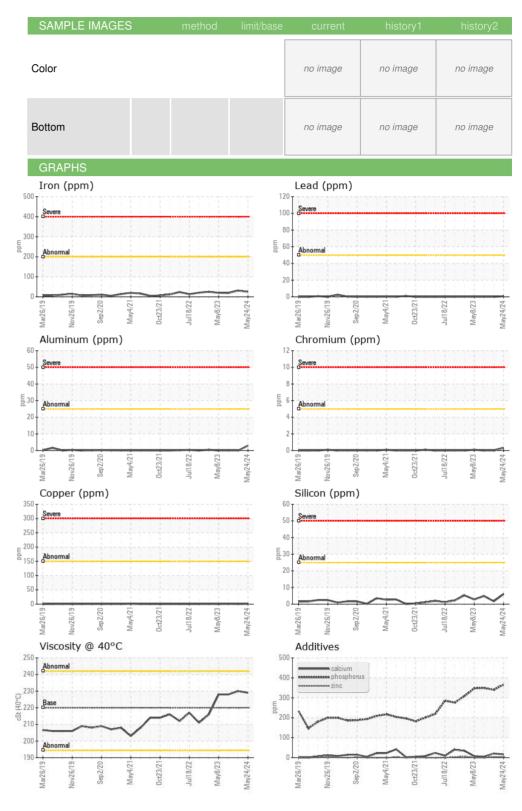
### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

Sample Number   Client Info   WC0895682   WC0895642   WC0524637   Sample Date   Client Info   24 May 2024   04 Mar 2024   17 Jul 2023   18 Jul 2023   18 Jul 2023   19 Jul 2023   Northand			lar2019 Nov	2019 Sep2020 May20	21 Oct2021 Jul2022 May21	023 May201	
Client Info   Agam	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date   Client Info   24 May 2024   04 Mar 2024   17 Jul 2028   Machine Age   hrs   Client Info   511   7900   6741   7900   6741   7900   6741   7900   6741   7900   6741   7900   6741   7900   6741   7900   748   748   748   748   748   748   7900   748	Sample Number		Client Info		WC0895682	WC0895642	WC0524637
Machine Age   hrs   Client Info   S411   7900   6741			Client Info		24 May 2024	04 Mar 2024	17 Jul 2023
Not Changed   Client Info   Not Changed   NORMAL   NORMARGINAL   NORMARGINAL	Machine Age	hrs	Client Info		8411	7900	
NORMAL   NORMAL   MARGINAL	Oil Age	hrs	Client Info		511	1907	748
NORMAL   NORMAL   MARGINAL	Oil Changed		Client Info		Not Changd	Changed	Not Changd
Water         WC Method         >0.1         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history?           Iron         ppm         ASTM D5185m         >200         25         31         19           Chromium         ppm         ASTM D5185m         >5         <1         0         0           Nickel         ppm         ASTM D5185m         >5         <1         0         0           Silver         ppm         ASTM D5185m         >5         <1         0         0           Aluminum         ppm         ASTM D5185m         >5         <1         0         0           Aluminum         ppm         ASTM D5185m         >50         <1         0         0           Aluminum         ppm         ASTM D5185m         >50         <1         0         0           Lead         ppm         ASTM D5185m         >50         <1         0         0           Copper         ppm         ASTM D5185m         >10         <1         0         0           Cadadium         ppm         ASTM D5185m         26         6         14         4	Sample Status				NORMAL	NORMAL	MARGINAL
WEAR METALS	CONTAMINATION	٧	method	limit/base	current	history1	history2
	Water		WC Method	>0.1	NEG	NEG	NEG
Chromium         ppm         ASTM D5185m         55         <1         0         0           Nickel         ppm         ASTM D5185m         >5         <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>200	25	31	19
Nickel	Chromium		ASTM D5185m	>5	<1	0	0
Description	Nickel		ASTM D5185m	>5	<1	0	0
Silver	Titanium	• •	ASTM D5185m	>5	<1	0	0
Aluminum	Silver		ASTM D5185m		<1	0	0
Copper	Aluminum		ASTM D5185m	>25	3	0	0
Description	Lead				<1	0	0
ASTM D5185m   STM D5185m   ST	Copper	• •	ASTM D5185m	>150	<1	0	<1
Vanadium         ppm         ASTM D5185m         <1         0         0           Cadmium         ppm         ASTM D5185m         <1         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         26         6         14           Barium         ppm         ASTM D5185m         1         0         0           Molybdenum         ppm         ASTM D5185m         <1         0         0           Magnesium         ppm         ASTM D5185m         <1         0         0           Magnesium         ppm         ASTM D5185m         16         21         5           Phosphorus         ppm         ASTM D5185m         366         340         349           Zinc         ppm         ASTM D5185m         3         3         0           Sulfur         ppm         ASTM D5185m         10555         11084         12229           CONTAMINANTS         method         limit/base         current         history1         history2           CONTAMINANTS         method         limit/base         current         history1         <	• •		ASTM D5185m	>10	<1	0	0
Cadmium         ppm         ASTM D5185m         <1         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         26         6         14           Barium         ppm         ASTM D5185m         1         0         0           Molybdenum         ppm         ASTM D5185m         <1	Vanadium		ASTM D5185m		<1	0	0
Boron	Cadmium		ASTM D5185m		<1	0	0
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         <1         0         0           Manganese         ppm         ASTM D5185m         <1	Boron	ppm	ASTM D5185m		26	6	14
Manganese         ppm         ASTM D5185m         <1         0         <1           Magnesium         ppm         ASTM D5185m         <1	Barium	ppm	ASTM D5185m		1	0	0
Magnesium         ppm         ASTM D5185m         <1         0         0           Calcium         ppm         ASTM D5185m         16         21         5           Phosphorus         ppm         ASTM D5185m         366         340         349           Zinc         ppm         ASTM D5185m         3         3         0           Sulfur         ppm         ASTM D5185m         10555         11084         12229           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6         2         5           Sodium         ppm         ASTM D5185m         >20         2         0         0           Potassium         ppm         ASTM D5185m         >20         2         0         0           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar <t< td=""><td>Molybdenum</td><td>ppm</td><td>ASTM D5185m</td><td></td><th>&lt;1</th><td>0</td><td>0</td></t<>	Molybdenum	ppm	ASTM D5185m		<1	0	0
Calcium         ppm         ASTM D5185m         16         21         5           Phosphorus         ppm         ASTM D5185m         366         340         349           Zinc         ppm         ASTM D5185m         3         3         0           Sulfur         ppm         ASTM D5185m         10555         11084         12229           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6         2         5           Sodium         ppm         ASTM D5185m         >20         2         0         0           Potassium         ppm         ASTM D5185m         >20         2         0         0           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE<	Manganese	ppm	ASTM D5185m		<1	0	<1
Phosphorus         ppm         ASTM D5185m         366         340         349           Zinc         ppm         ASTM D5185m         3         3         0           Sulfur         ppm         ASTM D5185m         10555         11084         12229           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6         2         5           Sodium         ppm         ASTM D5185m         >20         2         0         0           Potassium         ppm         ASTM D5185m         >20         2         0         0           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE         NON	Magnesium	ppm	ASTM D5185m		<1	0	0
Sulfur	Calcium	ppm	ASTM D5185m		16	21	5
Sulfur         ppm         ASTM D5185m         10555         11084         12229           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6         2         5           Sodium         ppm         ASTM D5185m         >20         0         0         0           Potassium         ppm         ASTM D5185m         >20         2         0         0           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE         NONE           Sand/Dirt         scalar         *Visual         NORML         NOR	Phosphorus	ppm	ASTM D5185m		366	340	349
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6         2         5           Sodium         ppm         ASTM D5185m         0         0         0         0           Potassium         ppm         ASTM D5185m         >20         2         0         0           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE <td< td=""><td>Zinc</td><td>ppm</td><td>ASTM D5185m</td><td></td><th>3</th><td>3</td><td>0</td></td<>	Zinc	ppm	ASTM D5185m		3	3	0
Silicon	Sulfur	ppm	ASTM D5185m		10555	11084	12229
Sodium         ppm         ASTM D5185m         0         0         0           Potassium         ppm         ASTM D5185m         >20         2         0         0           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE         NONE           Sand/Dirt         scalar         *Visual         NORML	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 0 0  VISUAL method limit/base current history1 history2  White Metal scalar *Visual NONE NONE NONE NONE NONE  Yellow Metal scalar *Visual NONE NONE NONE NONE NONE  Precipitate scalar *Visual NONE NONE NONE NONE NONE  Silt scalar *Visual NONE NONE LIGHT NONE  Debris scalar *Visual NONE LIGHT 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 >0.1 NEG NEG 0.2%	Silicon	ppm	ASTM D5185m	>25	6	2	5
Potassium ppm ASTM D5185m >20 2 0 0  VISUAL method limit/base current history1 history2  White Metal scalar *Visual NONE NONE NONE NONE NONE  Yellow Metal scalar *Visual NONE NONE NONE NONE NONE  Precipitate scalar *Visual NONE NONE NONE NONE NONE  Silt scalar *Visual NONE NONE LIGHT NONE  Debris scalar *Visual NONE LIGHT NONE NONE  Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE  Appearance scalar *Visual NONE NONE NONE NONE NONE  Appearance scalar *Visual NORML NORML NORML NORML  Odor scalar *Visual NORML NORML NORML NORML  Emulsified Water scalar *Visual >0.1 NEG NEG 0.2%	Sodium	ppm	ASTM D5185m		0	0	0
White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE LIGHT NONE Debris scalar *Visual NONE LIGHT 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 >0.1 NEG NEG 0.2%	Potassium	ppm	ASTM D5185m	>20	2	0	0
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONELIGHTNONEDebrisscalar*VisualNONELIGHTNONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG0.2%	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE LIGHT NONE Debris scalar *Visual NONE LIGHT 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 >0.1 NEG NEG 0.2%	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silt scalar *Visual NONE NONE LIGHT NONE Debris scalar *Visual NONE LIGHT 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 >0.1 NEG NEG 0.2%	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG 0.2%	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG 0.2%	Silt	scalar	*Visual	NONE	NONE	LIGHT	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG0.2%	Debris	scalar	*Visual	NONE			NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG0.2%	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG0.2%	_	scalar	*Visual	NORML		NORML	NORML
Emulsified Water scalar *Visual >0.1 <b>NEG</b> NEG 0.2%	• •			NORML	NORML	NORML	
	Emulsified Water						
	Free Water	scalar					



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory

Sample No.

: WC0895682 Lab Number : 06217425 Unique Number : 11090289

Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024

**Tested** : 24 Jun 2024 Diagnosed : 24 Jun 2024 - Wes Davis

To discuss this sample report, contact Customer Service at 1-800-237-1369.

WAKE STONE CORPORATION

3990 HWY 9 BUS E LORIS, SC

US 29569 Contact: JASON MILLER jasonmiller@wakestonecorp.com

T:

\* - 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)

F: (843)756-3401 Contact/Location: JASON MILLER - WAKLOR