**WEAR** CONTAMINATION **FLUID CONDITION**  NORMAL NORMAL **NORMAL** 

Machine Id

101M2
Component
Hoisting Gearbox

Sample Number		Client Info		DC0030992		
Sample Date		Client Info		09 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				NORMAL		
Iron	nnm	ASTM D5185m	>200	20		
			>10			
Tin		ASTM D5185m		0		
Vanadium				0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
	ppm					
	ppm					
		····				
Sodium	ppm	ASTM D5185m		2		
Boron	ppm	ASTM D5185m		4		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		155		
Phosphorus	ppm	ASTM D5185m		334		
Zinc	ppm	ASTM D5185m		42		
Sulfur		ASTM D5185m		601		
	Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	Sample Date  Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status  Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Yellow Metal scalar Silicon ppm Potassium ppm Water Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Codor scalar Emulsified Water scalar Sodium ppm Boron ppm Manganese ppm Magnesium ppm Magnesium ppm Calcium ppm Phosphorus	Sample Date Machine Age Nrs Client Info Oil Age Nrs Client Info Client Info Filter Age Oil Changed Filter Changed Sample Status  Iron Chromium Ppm ASTM D5185m Chromium Ppm ASTM D5185m Titanium Ppm ASTM D5185m Aluminum Ppm ASTM D5185m Copper Ppm ASTM D5185m Tin Ppm ASTM D5185m Vanadium Ppm ASTM D5185m Visual Silicon Potassium Potassium Potassium Potassium Potassium Potassium Potassium Ppm ASTM D5185m Visual Sand/Dirt Scalar Scalar Visual Sand/Dirt Appearance Scalar Scalar Visual Sodium Ppm ASTM D5185m Barium Ppm ASTM D5185m Barium Ppm ASTM D5185m Barium Ppm ASTM D5185m Barium Ppm ASTM D5185m ASTM D5185m Barium Ppm ASTM D5185m Barium Ppm ASTM D5185m ASTM	Sample Date Machine Age Ins Client Info Oil Age Ins Client Info Filter Age Ins Client Info Filter Age Ins Client Info Oil Changed Client Info Filter Changed Sample Status  Iron Ppm ASTM D5185m Silver Ppm ASTM D5185m Silver Ppm ASTM D5185m Aluminum Ppm ASTM D5185m Lead Ppm ASTM D5185m Copper Ppm ASTM D5185m Vanadium Ppm ASTM D5185m Vanadium Ppm ASTM D5185m White Metal Scalar Yellow Metal Scalar Visual NONE Silicon Potassium	Sample Date         Client Info         09 Apr 2024           Machine Age         hrs         Client Info         0           Oil Age         hrs         Client Info         0           Filter Age         hrs         Client Info         0           Oil Changed         Client Info         N/A           Filter Changed         Client Info         N/A           Sample Status         NORMAL           Iron         ppm         ASTM D5185m         >200         20           Chromium         ppm         ASTM D5185m         >10         0           Nickel         ppm         ASTM D5185m         >10         0           Nickel         ppm         ASTM D5185m         0         0           Silver         ppm         ASTM D5185m         0         0           Aluminum         ppm         ASTM D5185m         0         0           Lead         ppm         ASTM D5185m         0         0           Copper         ppm         ASTM D5185m         0         0           Vanadium         ppm         ASTM D5185m         0         0           Vallow Metal         scalar         *Visual         NONE         NONE <td>Sample Date         Client Info         09 Apr 2024            Machine Age         hrs         Client Info         0            Oil Age         hrs         Client Info         0            Filter Age         hrs         Client Info         N/A            Oil Changed         Client Info         N/A            Filter Changed         Client Info         N/A            Sample Status         NORMAL            Iron         ppm         ASTM D5185m         &gt;200         20            Iron         ppm         ASTM D5185m         &gt;10         0            Nickel         ppm         ASTM D5185m         &gt;10             Nickel         ppm         ASTM D5185m         0             Siiver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         0            Lead         ppm         ASTM D5185m         0            Copper         ppm         ASTM D5185m         0        </td>	Sample Date         Client Info         09 Apr 2024            Machine Age         hrs         Client Info         0            Oil Age         hrs         Client Info         0            Filter Age         hrs         Client Info         N/A            Oil Changed         Client Info         N/A            Filter Changed         Client Info         N/A            Sample Status         NORMAL            Iron         ppm         ASTM D5185m         >200         20            Iron         ppm         ASTM D5185m         >10         0            Nickel         ppm         ASTM D5185m         >10             Nickel         ppm         ASTM D5185m         0             Siiver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         0            Lead         ppm         ASTM D5185m         0            Copper         ppm         ASTM D5185m         0







Certificate L2367

Laboratory Sample No.

: DC0030992 Lab Number : 06176310 Unique Number : 11022363 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 May 2024 **Tested** 

: 13 May 2024 : 14 May 2024 - Sean Felton Diagnosed

**CRANEWORKS INC - MID-ATLANTIC** 

11089 LEADBETTER ROAD ASHLAND, VA

US 23005 Contact: JASON WILDE jcwilde@vacraneworks.com

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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F: