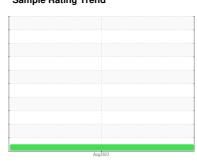


OIL ANALYSIS REPORT

Sample Rating Trend







Q27054-M1

Component **Hoist**

NOT GIVEN (--- GAL)

D 1	$\Lambda \cap \Lambda$	10	\sim 1	\circ
	agi	MO.	SI	S
	· · ·	\sim	U	\circ

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION							
Sample Number					Aug 2073		
Sample Number Client Info 20 Aug 2023	SAMPLE INFORM	/ATION	method			history1	history2
Sample Date		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		mmubacc			
Machine Age hrs Client Info 0							
Oil Age	·	bro			•		
Oil Changed Sample Status Client Info N/A							
Sample Status	-	1113			-		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >300 9			Olioni illio				
Iron							
Chromium						history1	history2
Nickel							
Titanium					-		
Stilver				>4			
Aluminum					-		
Lead				. 10			
Copper							
Tin ppm ASTM D5185m >15 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 22 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 41 Manganesium ppm ASTM D5185m 8 Calcium ppm ASTM D5185m 31 Calcium ppm ASTM D5185m 33 Phosphorus ppm ASTM D5185m 12183 Sulfur ppm ASTM D5185m 75 9					_		
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 22 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 8 Manganesium ppm ASTM D5185m 31 Magnesium ppm ASTM D5185m 31 Calcium ppm ASTM D5185m 33 Phosphorus ppm ASTM D5185m 12183 Sulfur ppm ASTM D5185m 75 9 CONTAMINANTS method limit/base current <					_		
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 22 Barium ppm ASTM D5185m <1				>10			
ADDITIVES					-		
Boron		ррпп		12 24 7			
Barium				limit/base		· ·	history2
Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 8 Calcium ppm ASTM D5185m 31 Phosphorus ppm ASTM D5185m 423 Zinc ppm ASTM D5185m 33 Sulfur ppm ASTM D5185m 12183 Sulfur ppm ASTM D5185m >75 9 Sodium ppm ASTM D5185m >75 9 Sodium ppm ASTM D5185m >20 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yellow Metal scalar							
Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 8 Calcium ppm ASTM D5185m 31 Phosphorus ppm ASTM D5185m 423 Zinc ppm ASTM D5185m 33 Sulfur ppm ASTM D5185m 12183 Sulfur ppm ASTM D5185m 75 9 Sodium ppm ASTM D5185m >75 9 Potassium ppm ASTM D5185m 20 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visua							
Magnesium ppm ASTM D5185m 8 Calcium ppm ASTM D5185m 31 Phosphorus ppm ASTM D5185m 423 Zinc ppm ASTM D5185m 33 Sulfur ppm ASTM D5185m 12183 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 9 Sodium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE	•				_		
Calcium ppm ASTM D5185m 31 Phosphorus ppm ASTM D5185m 423 Zinc ppm ASTM D5185m 33 Sulfur ppm ASTM D5185m 12183 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 75 9 Sodium ppm ASTM D5185m 20 0 Potassium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE	•						
Phosphorus ppm ASTM D5185m 423 Zinc ppm ASTM D5185m 33 Sulfur ppm ASTM D5185m 12183 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 9 Sodium ppm ASTM D5185m >75 9 Potassium ppm ASTM D5185m >20 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE	<u> </u>						
Zinc							
Sulfur ppm ASTM D5185m 12183 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 9 Sodium ppm ASTM D5185m 1 Potassium ppm ASTM D5185m >20 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NO	•						
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 9 Sodium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Precipitate scalar *Visual NONE Silt scalar *Visual NONE Silt scalar *Visual NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML	-						
Silicon ppm ASTM D5185m >75 9 Sodium ppm ASTM D5185m >20 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Codor scalar *Visual NORML NORML Emulsified Water scal	CONTAMINANTS		method	limit/hase	current	history1	history2
Sodium ppm ASTM D5185m 1 Potassium ppm ASTM D5185m >20 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual						Thotory	Thistory
Potassium ppm ASTM D5185m >20 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NEG Free Water scalar *Visual </td <td></td> <td></td> <td></td> <td>>/3</td> <td>_</td> <td></td> <td></td>				>/3	_		
White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Codor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG				>20	-		
White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG	VISUAL		method	limit/hase	current	history1	history2
Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG		scalar					
Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG							
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG					_		
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG							
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG							
Odor scalar *Visual NORML Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG							
Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG							
Free Water scalar *Visual NEG	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID PROPERTIES method limit/base current history1 history2	Free Water	scalar	*Visual		NEG		
	FLUID PROPERT	IES	method	limit/base	current	history1	history2

Visc @ 40°C

cSt

ASTM D445

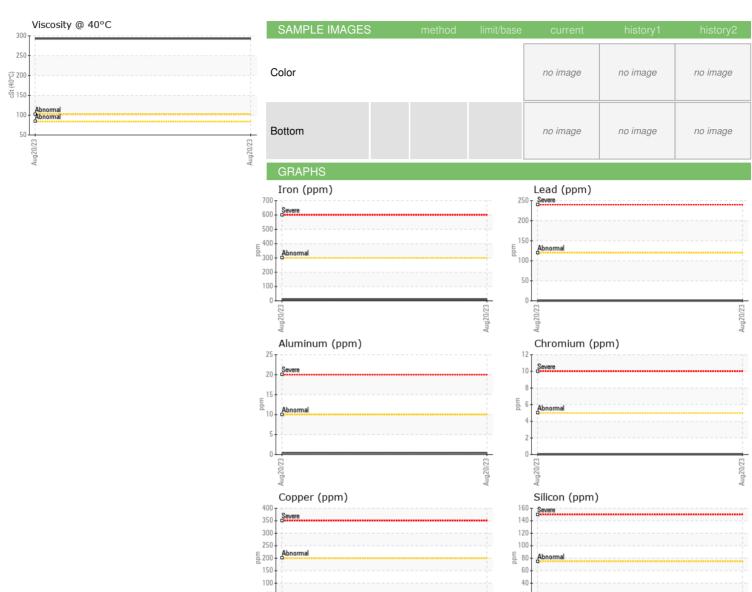
230

Report Id: CRAASHMA [WUSCAR] 05929087 (Generated: 09/19/2023 12:24:20) Rev: 1

Contact/Location: JASON WILDE - CRAASHMA



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10609034 Test Package : MOB 1

: DC0028387 : 05929087

(+0°C)

र्खें 150 100 Viscosity @ 40°C

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Aug 2023 Diagnosed

: 22 Aug 2023 Diagnostician : Don Baldridge **CRANEWORKS INC - MID-ATLANTIC** 11089 LEADBETTER ROAD

Additives

300

100

ASHLAND, VA US 23005

Contact: JASON WILDE jcwilde@vacraneworks.com

T:

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)

F: