

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

NOT GIVEN WC0576640

Component Hydraulic System

{not provided} (--- GAL)

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

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WEAR

All component wear rates are normal.

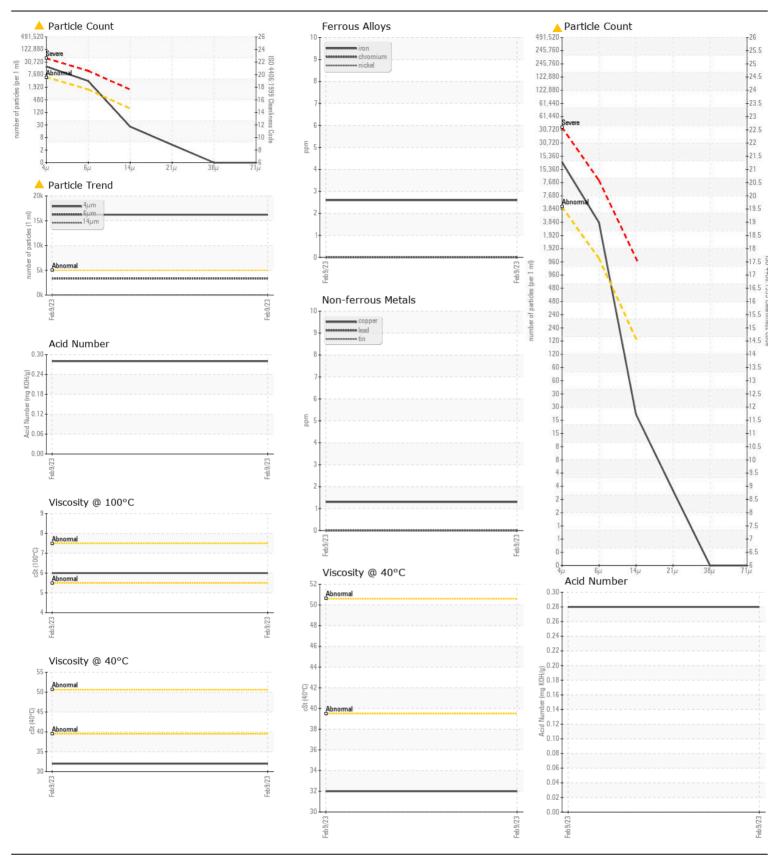
CONTAMINATION

There is a high amount of particulates present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test UOM Method LimitAb Current History1 History2 Sample Number Client Info WC0576640 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Age hrs Client Info N/A Filter Age K Client Info N/A Sample Status Client Info N/A Sample Status ASTM D5185m<>20 3 Chromium ppm ASTM D5185m<>10 0 Silver ppm ASTM D5185m 10 0 Auminum ppm ASTM D5185m 10 0 Auminum ppm ASTM D5185m 1 Auminum ppm							
Sample Number Client Info WC0576640 Sample Date Client Info 09 Feb 2023 Oil Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status Kimo Disson 0 Iron ppm ASTM D5185m<>-20 3 Nickel ppm ASTM D5185m<>-10 0 Silver ppm ASTM D5185m<>-10 0 Copper ppm ASTM D5185m<>-10 0 Vanadium ppm ASTM D5185m<>-10 0 Vanadium ppm ASTM D5185m<>-20 2 Vanadium ppm ASTM D5185m<>-20 2	Test	UOM	Method	Limit/Abn	Current	Historv1	Historv2
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Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m >20 <1 Potassium ppm ASTM D5185m >20 <1 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >1300 ▲ 3323 Particles >6µm ASTM D7647 >100 4 3223 Particles >6µm ASTM D7647 >100 4 3233 Particles >14µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >10 0 Particles >1µm ASTM D7647 >10 0 Silt scalar *Visual NONE NONE Sodium scalar *Visual NORML NORML				NONE	NONE		
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Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 ▲ 16210 Particles >6µm ASTM D7647 >1300 ▲ 3323 Particles >14µm ASTM D7647 >160 22 Particles >14µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >191714 ▲ 21/19/12 Silt scalar *Visual NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Boron ppm ASTM D5185m 0 <th>Silicon</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>20</th> <th>2</th> <th></th> <th></th>	Silicon	ppm	ASTM D5185m	>20	2		
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Particles >6µm ASTM D7647 >1300 ▲ 3323 Particles >14µm ASTM D7647 >160 22 Particles >21µm ASTM D7647 >40 3 Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >1917/14 ▲ 21/19/12 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 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0<	Water		WC Method	>0.1	NEG		
Particles >14µm ASTM D7647 >160 22 Particles >21µm ASTM D7647 >40 3 Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >1917/14 21/19/12 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NOR NORML Appearance scalar *Visual NORH NORML Odor scalar *Visual NORH NORML Boron ppm ASTM D5185m 0 Magnese ppm ASTM D5185m 33	Particles >4µm		ASTM D7647	>5000	🔺 16210		
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Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 21/19/12 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 Godor scalar *Visual NORML NORML Mody scalar *Visual >0.1 NEG Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m	Particles >21µm		ASTM D7647	>40	3		
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Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 1 Molybdenum ppm ASTM D5185m 1 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 3 Phosphorus ppm ASTM D5185m 332 Zinc ppm ASTM D5185m 382 Sulfur ppm ASTM D5185m 0.28 Acid Number (AN) mg KOHg ASTM D5185m 0.28 Visc @ 40°C CSt	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 1 Molybdenum ppm ASTM D5185m 1 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 3 Phosphorus ppm ASTM D5185m 332 Zinc ppm ASTM D5185m 382 Sulfur ppm ASTM D5185m 1283 Visc @ 40°C CSt ASTM D445 0.28	Appearance	scalar	*Visual	NORML	NORML		
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Zinc ppm ASTM D5185m 382 Sulfur ppm ASTM D5185m 1283 Acid Number (AN) mg KOH/g ASTM D8045 0.28 Visc @ 40°C cSt ASTM D445 32.0 Visc @ 100°C cSt ASTM D445 6	Calcium	ppm	ASTM D5185m				
Sulfur ppm ASTM D5185m 1283 Acid Number (AN) mg KOH/g ASTM D8045 0.28 Visc @ 40°C cSt ASTM D445 32.0 Visc @ 100°C cSt ASTM D445 6		ppm	ASTM D5185m				
Acid Number (AN) mg KOH/g ASTM D8045 0.28 Visc @ 40°C cSt ASTM D445 32.0 Visc @ 100°C cSt ASTM D445 6		ppm			382		
Visc @ 40°C cSt ASTM D445 32.0 Visc @ 100°C cSt ASTM D445 6		ppm	ASTM D5185m				
Visc @ 100°C cSt ASTM D445 6	. ,						
	-		ASTM D445		32.0		
Viscosity Index (VI) Scale ASTM D2270 135	-						
	Viscosity Index (VI)	Scale	ASTM D2270		135		



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **HIAB USA - MIDATLANTIC** : 10 Feb 2023 18627 STARCREEK DR Sample No. : WC0576640 Recieved CORNELIUS, NC Lab Number : 05765080 Diagnosed : 13 Feb 2023 : 10334688 US 28031 **Unique Number** Diagnostician : Doug Bogart Test Package : MOB 2 (Additional Tests: KV100, VI) Contact: SWANN MCCLURE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. swann.mcclure@cargotec.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)896-9089 F: (704)895-4801 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: SWANN MCCLURE - CARCOR