

ACCUSHEAR 2 Component Hydraulic System

{not provided} (--- GAL)

RECOMMENDATION

Machine Id

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a light amount of silt (particulates < 14 microns in size) 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 Limit/An Current History1 History2 Sample Number Client Info I4 Aug 2023							
Sample Number Client Info PTK0003802 Sample Date Client Info 14 Aug 2023 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Filter Age hrs Client Info Not Changd Gli Age hrs Client Info Not Changd Sample Status Client Info Not Changd Iron ppm ASTM D5185m >10 <1 Chromium ppm ASTM D5185m >10 <1 Nickel ppm ASTM D5185m >10 <1 Aluminum ppm ASTM D5185m >10 <1 Age ppm ASTM D5185m >10 <1 Vanadium pp	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info I4 Aug 2023 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info Not Changd Filter Changed Client Info Not Changd Sample Status Client Info Not Changd Sample Status Client Info Not Changd Silver ppm ASTM D5185m >10 Nickel ppm ASTM D5185m >10 Aluminum ppm ASTM D5185m >10 Copper ppm ASTM D5185m >10 Vanadium ppm ASTM D5185m >10 Visual NONE NONE NONE Visual	Sample Number		Client Info		PTK0003802	,	
Machine Age hrs Client Info 0 Gil Age hrs Client Info 0 Filter Age hrs Client Info Not Changd Gil Changed Client Info Not Changd Sample Status ATTENTION Iron ppm ASTM D5185m<>20 2 Nickel ppm ASTM D5185m<>10 -1 Nickel ppm ASTM D5185m 10 Silver ppm ASTM D5185m 10 -1 Aluminum ppm ASTM D5185m >10 -1 Vanadum ppm ASTM D5185m >20 3 Yeliow Metal scalar Yusual NONE Yeliow Metal sc			Client Info		14 Aug 2023		
Filter Age hrs Client Info 0 Oil Changed Client Info Not Changd Sample Status ATTENTION Iron ppm ASTM D5185m<>20 2 Chromium ppm ASTM D5185m<>10 0 Nickel ppm ASTM D5185m<<10 0 Nickel ppm ASTM D5185m 10 -1 Silver ppm ASTM D5185m 10 -1 Copper ppm ASTM D5185m >10 -1 Vanadum ppm ASTM D5185m >20 2 Vanadum ppm ASTM D5185m >20 3 Vanadum ppm ASTM D5185m >20 3 Veltow Metal Scalar	Machine Age	hrs	Client Info		0		
Oil Changed Filter Changed Sample Status Client Info Client Info Not Changd Not Changd ATTENTION	Oil Age	hrs	Client Info		0		
Filter Changed Sample Status Client Info Not Change ATTENTION Iron ppm ASTM D5185m >20 2 Iron ppm ASTM D5185m >10 <1 Nickel ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Silver ppm ASTM D5185m >10 <1 Lead ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m >20 <1 Vanadium ppm ASTM D5185m >20 3 Vanadium ppm ASTM D5185m >20 3 Vanadium ppm ASTM D5185m >20 3	Filter Age	hrs	Client Info		0		
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Chromium ppm ASTM D5185m >10 <1	Sample Status				ATTENTION		
Chromium ppm ASTM D5185m >10 <1							
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Titanium ppm ASTM D5185m C Aluminum ppm ASTM D5185m >10 <1 Aluminum ppm ASTM D5185m >10 <1 Lead ppm ASTM D5185m >10 <1 Copper ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m >20 Vanadium ppm ASTM D5185m >20 3 Vanadium ppm ASTM D5185m >20 2 Vanadium ppm ASTM D5185m >20 2 Vanadium ppm ASTM D5185m >20 2	Chromium	ppm	ASTM D5185m	>10	<1		
Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >10 <1 Lead ppm ASTM D5185m >10 <1 Copper ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m >20 3 Vellow Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Vater WC Method >0.1 NEG Particles >4µm ASTM D7647 >100 0 Particles >1µm ASTM D7647 >40 0	Nickel	ppm	ASTM D5185m	>10	0		
Aluminum ppm ASTM D5185m >10 <1	Titanium	ppm	ASTM D5185m		<1		
Lead ppm ASTM D5185m >10 <1	Silver	ppm	ASTM D5185m		0		
Copper ppm ASTM D5185m >75 1 Tin ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m <1 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 2 Particles >4µm ASTM D7647 >5000 9901 Particles >5µm ASTM D7647 >100 0 Particles >4µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) 191714 021/81	Aluminum	ppm	ASTM D5185m	>10	<1		
Tin ppm ASTM D5185m >10 <1	Lead	ppm	ASTM D5185m	>10	<1		
Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>75	1		
White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 ● 9901 Particles >5µm ASTM D7647 >160 80 Particles >3µm ASTM D7647 >10 0 Particles >3µm ASTM D7647 >10 0 Particles >3µm ASTM D7647 >30 0 Oil Cleanliness Scalar *Visual NONE NONE Solt scalar *Visual NORE NORE <th>Tin</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>10</th> <th><1</th> <th></th> <th></th>	Tin	ppm	ASTM D5185m	>10	<1		
Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 9901 Particles >14µm ASTM D7647 >1300 1723 Particles >14µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >40 23 Particles >38µm ASTM D7647 >3 0 Particles >38µm ASTM D7647 >3 0 Silt scalar *Visual NONE NONE Sold scalar *Visual NORE NORE	Vanadium	ppm	ASTM D5185m		<1		
Silicon ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 9901 Particles >6µm ASTM D7647 >100 0 Particles >6µm ASTM D7647 >100 0 Particles >21µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >3 0 Particles >38µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) 1917/14 2018/13 Silt scalar *Visual NORE NORE Beb	White Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 9901 Particles >6µm ASTM D7647 >1300 1723 Particles >6µm ASTM D7647 >160 80 Particles >6µm ASTM D7647 >40 23 Particles >1µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Particles >38µm ASTM D7647 >3 0 Particles >4µm ASTM D7647 >3 0 Particles >51µm ASTM D7647 >3 0 Particles >51µm ASTM D7647 >3 0 Solit scalar Yisual NONE NONE Sand/Dirt </th <th>Yellow Metal</th> <th>scalar</th> <th>*Visual</th> <th>NONE</th> <th>NONE</th> <th></th> <th></th>	Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 9901 Particles >6µm ASTM D7647 >1300 1723 Particles >6µm ASTM D7647 >160 80 Particles >6µm ASTM D7647 >40 23 Particles >1µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Particles >38µm ASTM D7647 >3 0 Particles >4µm ASTM D7647 >3 0 Particles >51µm ASTM D7647 >3 0 Particles >51µm ASTM D7647 >3 0 Solit scalar Yisual NONE NONE Sand/Dirt </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
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Particles >4μm ASTM D7647 >5000 9901 Particles >6μm ASTM D7647 >1300 1723 Particles >14μm ASTM D7647 >160 80 Particles >14μm ASTM D7647 >40 23 Particles >21μm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >30 0 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >191714 20/18/13 Silt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORM NORM Appearance scalar *Visual NORM NORM Odor scalar *Visual NORM NOR <t< th=""><th>Potassium</th><th>ppm</th><th>ASTM D5185m</th><th>>20</th><th>2</th><th></th><th></th></t<>	Potassium	ppm	ASTM D5185m	>20	2		
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Particles >38μm ASTM D7647 >10 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >1917/14 20/18/13 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORM NORML Odor scalar *Visual NORM NORML Godor scalar *Visual NORM NORML Sodium ppm ASTM D5185m Q Boron ppm ASTM D5185m Q Manganese ppm ASTM D5185m I	Particles >14µm		ASTM D7647	>160	80		
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Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 2 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m <1 Phosphorus ppm ASTM D5185m <137 Zinc ppm ASTM D5185m 504 Sulfur ppm ASTM D5185m 3873 Acid Number (AN) mg KOH/g ASTM D5185m 0.81	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 2 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m <1 Phosphorus ppm ASTM D5185m 7 Phosphorus ppm ASTM D5185m 137 Zinc ppm ASTM D5185m 504 Sulfur ppm ASTM D5185m 3873 Acid Number (AN) mg KOH/g ASTM D5185m 0.81	Appearance	scalar	*Visual	NORML	NORML		
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Barium ppm ASTM D5185m O Molybdenum ppm ASTM D5185m <1							
Molybdenum ppm ASTM D5185m <1		ppm			0		
Manganese ppm ASTM D5185m <1		ppm					
Magnesium ppm ASTM D5185m 7 Calcium ppm ASTM D5185m 137 Phosphorus ppm ASTM D5185m 504 Zinc ppm ASTM D5185m 718 Sulfur ppm ASTM D5185m 3873 Acid Number (AN) mg KOH/g ASTM D8045 0.81		ppm	ASTM D5185m		<1		
Calcium ppm ASTM D5185m 137 Phosphorus ppm ASTM D5185m 504 Zinc ppm ASTM D5185m 718 Sulfur ppm ASTM D5185m 3873 Acid Number (AN) mg KOH/g ASTM D8045 0.81	-	ppm					
Phosphorus ppm ASTM D5185m 504 Zinc ppm ASTM D5185m 718 Sulfur ppm ASTM D5185m 3873 Acid Number (AN) mg KOH/g ASTM D8045 0.81	0	ppm	ASTM D5185m		7		
Zinc ppm ASTM D5185m 718 Sulfur ppm ASTM D5185m 3873 Acid Number (AN) mg KOH/g ASTM D8045 0.81	Calcium	ppm	ASTM D5185m		137		
Sulfur ppm ASTM D5185m 3873 Acid Number (AN) mg KOH/g ASTM D8045 0.81	Phosphorus	ppm	ASTM D5185m		504		
Acid Number (AN) mg KOH/g ASTM D8045 0.81	Zinc	ppm	ASTM D5185m		718		
	Sulfur	ppm	ASTM D5185m		3873		
Visc @ 40°C cSt ASTM D445 46.9	Acid Number (AN)	mg KOH/g	ASTM D8045		0.81		
	Visc @ 40°C	cSt	ASTM D445		46.9		



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 RAHM'S CUSTOM Sample No. 7141 NORTHLAND DR N : PTK0003802 Received : 29 Aug 2023 Lab Number : 05937213 BROOKLYN PARK, MN Tested : 30 Aug 2023 : 30 Aug 2023 - Wes Davis US 55428 Unique Number : 10622484 Diagnosed Test Package : MOB 2 Contact: Service Manager Certificate L2367 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. T: F:

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

Contact/Location: Service Manager - RAHBRO