

ROTO XTEND ATLAS COPCO ITJ552482 - CALIBER COLLISION 1778 Component Compressor

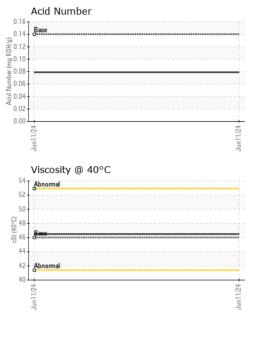
Basepic Number Client Info UD9961179 Init Init<								
Sample Date Client info 11 Jun 2021	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Ins Client Info Image Sign Image Image OI Age hrs Client Info Sign Sign Image Sign Image Sign Image Sign Image Sign Image Sign Image Image Sign Image <	Resample at the next service interval to monitor.							
Oil Age hrs Client Info S331 Filter Age hrs Client Info S331 OIC Change Client Info Change Filter Changed Client Info Change WEAR Iron ppm ASIM DISIS 4 All component wear rates are normal. Change pm ASIM DISIS 4 Nickel pm ASIM DISIS 4 Nickel pm ASIM DISIS 4 Silver pm ASIM DISIS 4			lava					
Filter Age hrs Client Info S351 IIII of the Changed Client Info Changed IIII of the Changed IIII of the Changed IIIII of the Changed IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		_						
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WEAR Iron ppm ASTM 05185n >50 0 All component wear rates are normal. Chromium ppm ASTM 05185n 4 Nickel ppm ASTM 05185n 4 Titanium ppm ASTM 05185n 1 0 All minum ppm ASTM 05185n 5 0 All minum ppm ASTM 05185n 56 0 Aluminum ppm ASTM 05185n 56 0 Lead ppm ASTM 05185n 56 0 Vanadium ppm ASTM 05185n 56 0 Vanadium ppm ASTM 05185n 56 0 Vanadium ppm ASTM 05185n 58 0 Vanadium ppm ASTM 05185n 58 3 Vanadium ppm ASTM 05185n 52 0		•		Client into		-		
All component wear rates are normal. Chromium ppm ASTM D515m S 0 Nickel ppm ASTM D515m 4 Titanium ppm ASTM D515m 0 All minum ppm ASTM D515m 0 Aluminum ppm ASTM D515m 5 0 Lead ppm ASTM D515m -56 0 Copper ppm ASTM D515m -56 0 Vanadium ppm ASTM D515m -56 0 Vanadium ppm ASTM D515m -56 0 Vanadium ppm ASTM D515m -50 0 Vanadium ppm ASTM D515m -50 0 Vanadium ppm ASTM D515m -50 0		Sample Status						
Nickel ppm ASTM D5185h 4 Titanium ppm ASTM D5185h 0 Silver ppm ASTM D5185h 0 Auminum ppm ASTM D5185h >50 0 Auminum ppm ASTM D5185h >55 0 Lead ppm ASTM D5185h >55 <1 Vanadium ppm ASTM D5185h >55 <1 Vanadium ppm ASTM D5185h >50 0 Vanadium ppm ASTM D5185h >50 0 Vanadium ppm ASTM D5185h >50 0 Vanadum ppm ASTM D5185h >50 0 Visual NONE NONE	WEAR	Iron	ppm	ASTM D5185m	>50	0		
Nickel pp ASTM 05185m 4 Titanium ppm ASTM 05185m -	All component wear rates are normal	Chromium	ppm	ASTM D5185m	>5	0		
Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >65 0 Lead ppm ASTM D5185m >65 0 Copper ppm ASTM D5185m >65 0 Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 White Metal scalar *Visual NONE NONE NONE CONTAMINATION Silcon ppm ASTM D5185m >53 3 Silcon ppm ASTM D5185m >50 NONE NONE Silcon scalar Visual NONE NONE Soldon/D1 scalar Visual NONE NONE		Nickel	ppm	ASTM D5185m		4		
Aluminum ppm ASTM D585m -55 0 Lead ppm ASTM D585m -65 Copper ppm ASTM D585m -60 Tin ppm ASTM D585m -60 Vanadium ppm ASTM D585m -60 White Metal scalar 'Visual NONE NONE CONTAMINATION NONE Silicon ppm ASTM D585m -20 0 Mater Wolder VO MONE MONE Silicon ppm ASTM D585m -20 0 Silicon scalar Visual NONE NONE Silicon scalar Visual NONE NONE		Titanium	ppm	ASTM D5185m		<1		
Lead pm ASTM D518m >65 0 Copper pm ASTM D518m >65 -1 Tin pm ASTM D518m >10 0.0 Vanadium pm ASTM D518m >10 0.0 Vanadium pm ASTM D518m >10 NONE NONE Vanadium pm ASTM D518m >10 NONE NONE Valow Metal scalar 'Visual NONE NONE Otomation of any contamination in the oil. Silicon pm ASTM D518m >20 0 Silicon ppm ASTM D518m >0.01 NORE Silicon scalar 'Visual NONE NONE NONE Sand/Dirt scalar 'Visual NORH NORH		Silver	ppm	ASTM D5185m		0		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Aluminum	ppm	ASTM D5185m	>15	0		
Tin pp ASTM D5185 >10 0 Vanadium pp ASTM D5185 I <1 White Metal scalar 'Visual NONE NONE White Metal scalar 'Visual NONE NONE CONTAMINATION Still 000 pm ASTM D5185 >3 3 There is no indication of any contamination in the oil. Still 000 pm ASTM D5185 >20 0 Water Visual NONE NONE NONE NONE Still 000 scalar 'Visual NONE NONE Water Visual NONE NONE Still 000 scalar 'Visual NONE NONE Still 000 scalar 'Visual NONE NONE Still 000 scalar 'Visual NONE NONE Still 000 scalar 'Visual NORE NORE Still 000 scalar 'Visual NORE NORE		Lead	ppm	ASTM D5185m	>65	0		
VanadiumpmASTM D5185m<		Copper	ppm	ASTM D5185m	>65	<1		
White Metal scalar Visual NONE NONE Income Income Vellow Metal scalar Visual NONE NONE Income Income CONTAMINATION Silicon ppm ASTM D518m >35 33 Income Income There is no indication of any contamination in the oil. Potassium ppm ASTM D518m >20 0 Income Income Vater Visual NONE NONE NONE Income Income Income Solit scalar Visual NONE NONE Income Income Appearance scalar Visual NORE Income Income Income The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. Solium ppm ASTM D518m Income Income Income Molybdenum ppm ASTM D518m Income Income Income Income Income Income Molybdenum ppm ASTM D518m Income Income Income Income Income Income Molybdenum ppm ASTM D518m Income Income Income Income Income Income		Tin	ppm	ASTM D5185m	>10	0		
Yellow Metalscalar*VisualNONENONECONTAMINATIONThere is no indication of any contamination in the oil.SiliconppmASTM D5185m>-200VaterWC Method>-0.1NEGESilitscalar*VisualNONENONENONESilitscalar*VisualNONENONESand/Dirtscalar*VisualNONENONE		Vanadium	ppm	ASTM D5185m		<1		
CONTAMINATION Silicon ppm ASTM D5185m >-35 3 There is no indication of any contamination in the oil. Potassium ppm ASTM D5185m >-20 0 Water WC Method >0.1 NCRG Silt scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Sold/Dit scalar *Visual NORM NORM Appearance scalar *Visual NORM NORM Odor scalar *Visual NORM NORM The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. Sodium pm ASTM D5185m 0 0 Molybdenum ppm		White Metal	scalar	*Visual	NONE	NONE		
Potassium ppd ASTM D518m p-20 0 Water Water WC Method 5.01 NREG Silt scalar Visual NONE NONE Debris scalar Visual NONE NONE Sand/Dirt scalar Visual NONE NONE Appearance scalar Visual NORM NORM Odor scalar Visual NORM NORM Odor scalar Visual NORM NORM Odor scalar Visual NORM NORM More scalar Visual NORM NORM Odor scalar Visual NORM NORM The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. Scluur ppm ASTM D518m C 0 Barium ppm ASTM D518m Image: Scalar Scalar<		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppd ASTM D518m p-20 0 Water Water WC Method 5.01 NREG Silt scalar Visual NONE NONE Debris scalar Visual NONE NONE Sand/Dirt scalar Visual NONE NONE Appearance scalar Visual NORM NORM Odor scalar Visual NORM NORM Odor scalar Visual NORM NORM Odor scalar Visual NORM NORM More scalar Visual NORM NORM Odor scalar Visual NORM NORM The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. Scluur ppm ASTM D518m C 0 Barium ppm ASTM D518m Image: Scalar Scalar<	CONTAMINATION	Silicon	ppm	ASTM D5185m	>35	3		
Water WC Method >0.1 NEG Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORE NONE Odor scalar *Visual NORML NORML Odor scalar *Visual NORML NORML The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. Sodium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Maganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Soldur ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0		Potassium		ASTM D5185m	>20	0		
Debrisscalar*VisualNONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMNORMLEmulsified Watescalar*VisualNORNORMLFLUID CONDITIONSodiumppmASTM D5185m2SodiumppmASTM D5185mI0MolybdenumppmASTM D5185mI0MolybdenumppmASTM D5185mI0MaganeseppmASTM D5185mI0PhosphorusppmASTM D5185mI0ZincppmASTM D5185mI30SulfurppmASTM D5185mI30SulfurppmASTM D5185mI30SulfurppmASTM D5185mI30SulfurppmASTM D5185mI30SulfurppmASTM D5185mI30SulfurppmASTM D5185mI30 <t< th=""><th></th><th>Water</th><th></th><th>WC Method</th><th>>0.1</th><th>NEG</th><th></th><th></th></t<>		Water		WC Method	>0.1	NEG		
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORM NORML Odor scalar *Visual NORM NORML Odor scalar *Visual NORM NORML Odor scalar *Visual NORM Emulsified Wate scalar *Visual NORM FLUID CONDITION Sodium ppm ASTM D5185m 2 Boron ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0		Silt	scalar	*Visual	NONE	NONE		
Appearancescalar*VisualNORMLNORMLIncentIncentOdorscalar*VisualNORMLNORMLIncentIncentEmulsified Watescalar*VisualNORMLNORMLIncentIncentFLUID CONDITIONSodiumppmASTM D5185//IncentIncentIncentIncentBoronppmASTM D5185//Incent<		Debris	scalar	*Visual	NONE	NONE		
Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGFLUID CONDITIONThe AN level is acceptable for this fluid. The condition of the oil is suitable for further service.SodiumppmASTM D5185m2BoronppmASTM D5185m0MolybdenumppmASTM D5185m0MaganeseeppmASTM D5185m0MagnesiumppmASTM D5185m0MogbhorusppmASTM D5185m0MagnesiumppmASTM D5185m0MagnesiumppmASTM D5185m0PhosphorusppmASTM D5185m0SulfurppmASTM D5185mI30SulfurppmASTM D5185mI221		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG FLUID CONDITION Sodium ppm ASTM D5185m 2 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 0 Zinc ppm ASTM D5185m 30 Sulfur ppm ASTM D5185m 30		Appearance	scalar	*Visual	NORML	NORML		
FLUID CONDITION Sodium ppm ASTM D5185m 2 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m <1 Calcium ppm ASTM D5185m <1 Phosphorus ppm ASTM D5185m 0 Zinc ppm ASTM D5185m 30 Sulfur ppm ASTM D5185m 221		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m O Barium ppm ASTM D5185m O Molybdenum ppm ASTM D5185m O Manganese ppm ASTM D5185m O Magnesium ppm ASTM D5185m I Magnesium ppm ASTM D5185m I I Magnesium ppm ASTM D5185m I I I		Emulsified Water	scalar	*Visual	>0.1	NEG		
Boron ppm ASTM D5185m O Barium ppm ASTM D5185m O Molybdenum ppm ASTM D5185m O Manganese ppm ASTM D5185m O Magnesium ppm ASTM D5185m I Magnesium ppm ASTM D5185m I I Magnesium ppm ASTM D5185m I I I	FLUID CONDITION	Sodium	maa	ASTM D5185m		2		
Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m Magnesium ppm ASTM D5185m Phosphorus ppm ASTM D5185m Zinc ppm ASTM D5185m 30 Sulfur ppm ASTM D5185m 30								
MolybdenumppmASTM D5185mOManganeseppmASTM D5185m<1MagnesiumppmASTM D5185m<<1MagnesiumppmASTM D5185m<<1CalciumppmASTM D5185m0PhosphorusppmASTM D5185m<135ZincppmASTM D5185m30SulfurppmASTM D5185m<121	•							
Manganese ppm ASTM D5185m <1								
Magnesium ppm ASTM D5185m		-						
Calcium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 35 Zinc ppm ASTM D5185m 30 Sulfur ppm ASTM D5185m 221		-						
Phosphorus ppm ASTM D5185m 35 Zinc ppm ASTM D5185m 30 Sulfur ppm ASTM D5185m 221		-						
Zinc ppm ASTM D5185m 30 Sulfur ppm ASTM D5185m 221								
Sulfur ppm ASTM D5185m 221								
		Acid Number (AN)	mg KOH/g		0.14	0.079		

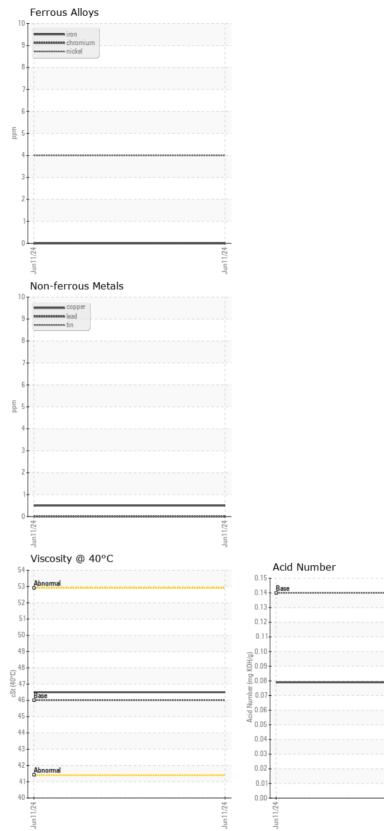
Visc @ 40°C cSt

Contact/Location: RANDY BEAUCHAMP - UCTATRIC

46.5

ASTM D445 46







	d	Laboratory	TA	TE ENGINEERING			
	ANAB	Sample No.	: UCH06211794	Received	: 17 Jun 2024	8131 \	VIRGINIA PINE CT
	ACCREDITED	Lab Number	: 06211794	Tested	: 18 Jun 2024		RICHMOND, VA
ЭË:	TESTING LABORATORY	Unique Number	: 11084658	Diagnosed	: 18 Jun 2024 - Wes Davis		US 23237
	Certificate L2367	Test Package	: IND 2			Contact: RAN	NDY BEAUCHAMP
麗	To discuss this	s sample report,	contact Customer Servic	e at 1-800-237	-1369.	randy.bea	uchamp@tate.com
Щ.	* - Denotes tes	st methods that	are outside of the ISO 17	025 scope of a	ccreditation.		T: (757)214-6541
	Statements of	conformity to sp	pecifications are based or	the simple acc	eptance decision rule (JCGM	106:2012)	F: (804)743-0415

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Laboratory

Contact/Location: RANDY BEAUCHAMP - UCTATRIC

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TATE ENGINEERING

Jun11/24