

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area **ROTAIR XTRA [8710]** Machine Id **CHICAGO PNEUMATIC CAI922360**

Component Compressor

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

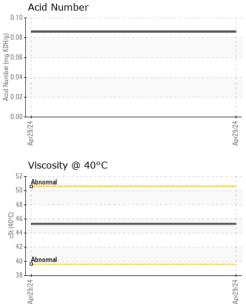
Fluid Condition

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

Aluminum ppm ASTM D5185m >25 2 Lead ppm ASTM D5185m >25 <1 Copper ppm ASTM D5185m >50 2 Tin ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m >15 <1 Cadmium ppm ASTM D5185m <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Malybdenum ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m <11 <			ام م مالا م معر			la la tament	biete m.O
Sample Date Client Info 29 Apr 2024 Machine Age hrs Client Info 4872 Oil Age hrs Client Info 3528 Oil Changed Client Info Changed Sample Status Imit/base current history1 history2 Water WC Method >0.1 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 11 Othornium ppm ASTM D5185m <10		ATON		IIIIII/Dase			
Machine Age hrs Client Info 4872 Oil Age hrs Client Info 3528 Sample Status Client Info Changed Sample Status Client Info Changed CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 11 Ohromium ppm ASTM D5185m <1							
Oil Age hrs Client Info 3528 Oil Changed Client Info Changed Sample Status NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 11 Chromium ppm ASTM D5185m <1	•				•		
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Sample Status Imathod Imit/base current history1 history2 Water WC Method >0.1 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 11 Chromium ppm ASTM D5185m >10 <1	0	hrs					
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Water WC Method >0.1 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 11 Ohromium ppm ASTM D5185m <1	Sample Status				NORMAL		
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Iron ppm ASTM D5185m >50 11 Chromium ppm ASTM D5185m >10 <1 Nickel ppm ASTM D5185m <1 Titanium ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >25 2 Aluminum ppm ASTM D5185m >25 <1 Lead ppm ASTM D5185m >50 2 Copper ppm ASTM D5185m >50 2 Vanadium ppm ASTM D5185m 50 2 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m <1	Water		WC Method	>0.1	NEG		
Chromium ppm ASTM D5185m >10 <1 Nickel ppm ASTM D5185m <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m <1 Tittanium ppm ASTM D5185m <1	Iron	ppm	ASTM D5185m	>50	11		
Titanium ppm ASTM D5185m <1 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >25 2 Aluminum ppm ASTM D5185m >25 2 Lead ppm ASTM D5185m >25 <1	Chromium	ppm	ASTM D5185m	>10	<1		
Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >25 2 Lead ppm ASTM D5185m >25 <1	Nickel	ppm	ASTM D5185m		<1		
Aluminum ppm ASTM D5185m >25 2 Lead ppm ASTM D5185m >25 <1	Titanium	ppm	ASTM D5185m		<1		
Lead ppm ASTM D5185m >25 <1 Copper ppm ASTM D5185m >50 2 Tin ppm ASTM D5185m >15 <1	Silver	ppm	ASTM D5185m		0		
Copper ppm ASTM D5185m >50 2 Tin ppm ASTM D5185m >15 <1	Aluminum	ppm	ASTM D5185m	>25	2		
TinppmASTM D5185m>15<1VanadiumppmASTM D5185m0CadmiumppmASTM D5185m<1	Lead	ppm	ASTM D5185m	>25	<1		
VanadiumppmASTM D5185m0CadmiumppmASTM D5185m<1	Copper	ppm	ASTM D5185m	>50	2		
CadmiumppmASTM D5185m<1ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m0BariumppmASTM D5185m2MolybdenumppmASTM D5185m<1	Tin	ppm	ASTM D5185m	>15	<1		
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m0BariumppmASTM D5185m2MolybdenumppmASTM D5185m<1	Vanadium	ppm	ASTM D5185m		0		
BoronppmASTM D5185m0BariumppmASTM D5185m2MolybdenumppmASTM D5185m<1	Cadmium	ppm	ASTM D5185m		<1		
Barium ppm ASTM D5185m 2 Molybdenum ppm ASTM D5185m <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m <1 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m		0		
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		2		
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m <1	Molybdenum	ppm	ASTM D5185m		<1		
Magnesium ppm ASTM D5185m <1 Calcium ppm ASTM D5185m 3 Phosphorus ppm ASTM D5185m 115 Zinc ppm ASTM D5185m 111 Sulfur ppm ASTM D5185m 888 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 Sodium ppm ASTM D5185m >25 1 Potassium ppm ASTM D5185m >20 1 FLUID DEGRADATION method limit/base current history1 history2	Manganese	ppm	ASTM D5185m				
Phosphorus ppm ASTM D5185m 115 Zinc ppm ASTM D5185m 11 Sulfur ppm ASTM D5185m 88 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 Sodium ppm ASTM D5185m >25 1 Potassium ppm ASTM D5185m >20 1 FLUID DEGRADATION method limit/base current history1 history2	-	ppm	ASTM D5185m		<1		
ZincppmASTM D5185m11SulfurppmASTM D5185m88CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>251SodiumppmASTM D5185m>201PotassiumppmASTM D5185m>201FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Calcium	ppm	ASTM D5185m		3		
ZincppmASTM D5185m11SulfurppmASTM D5185m88CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>251SodiumppmASTM D5185m>251PotassiumppmASTM D5185m>201FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Phosphorus	ppm	ASTM D5185m		115		
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>251SodiumppmASTM D5185m0PotassiumppmASTM D5185m>201FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Zinc	ppm	ASTM D5185m		11		
Silicon ppm ASTM D5185m >25 1 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 1 FLUID DEGRADATION method limit/base current history1 history2	Sulfur	ppm	ASTM D5185m		88		
Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 1 FLUID DEGRADATION method limit/base current history1 history2	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m<>20 1 FLUID DEGRADATION method limit/base current history1 history2	Silicon	ppm	ASTM D5185m	>25	1		
Potassium ppm ASTM D5185m >20 1 FLUID DEGRADATION method limit/base current history1 history2	Sodium				0		
				>20	-		
	FLUID DEGRADA		method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.086		



OIL ANALYSIS REPORT



	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		
Apr29/24	Appearance	scalar	*Visual	NORML	NORML		
Ap	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPERT	IES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445		45.3		
	SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Apr29/24	Color					no image	no image
	Bottom					no image	no image
	Ferrous Alloys			Apr29.24			
	udd 2 0 +2662/4 Viscosity @ 40°C			Apr29/24 -	Acid Number		
	50 Abnormal 50 45 45 40 35 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40			Apr29/24 0.0 Acid Number (mg K0H/g) 0.0 Acid Number (mg K0H/g)	4		
Laboratory Sample No. Lab Number	: WearCheck USA - 50 : UCH06177320	1 Madiso Recei Teste Diagr	ived : 13 ed : 14		ADVANCE		

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