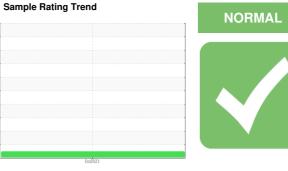


# **OIL ANALYSIS REPORT**

# ACAS 115 [7132] Machine Id CHICAGO PNEUMATIC ITJ024511

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

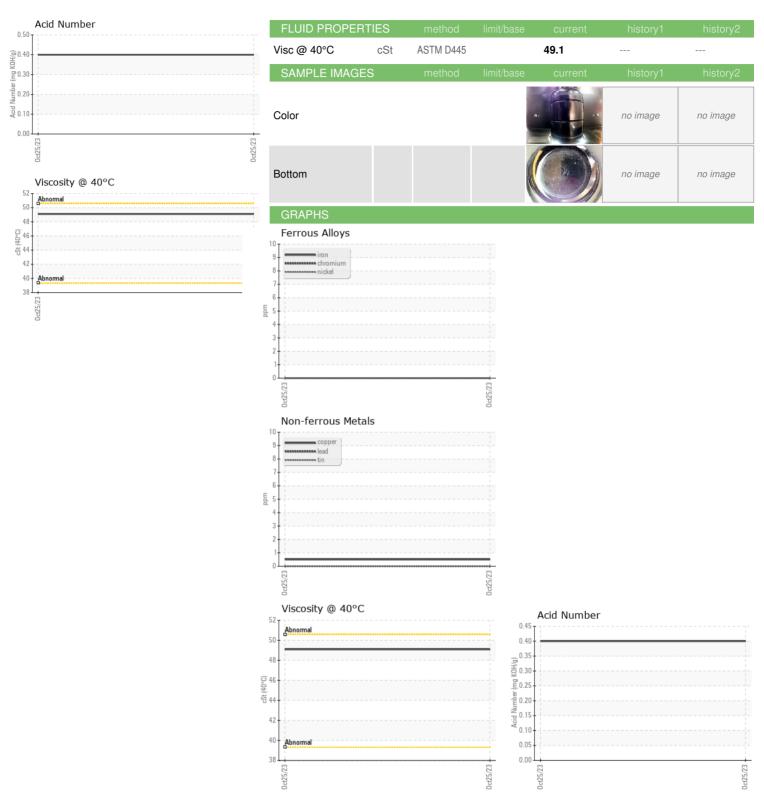
## **Fluid Condition**

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

Sample Number   Client Info   UCH05996819					Oct2023		
Sample Date   Client Info   25 Oct 2023	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date   Client Info   25 Oct 2023	Sample Number		Client Info		UCH05996819		
Machine Age			Client Info		25 Oct 2023		
Oil Age         hrs         Client Info         3000		hrs	Client Info				
Oil Changed   Sample Status		hrs	Client Info		3000		
NORMAL   Sample Status   Normal Status   Sample Status   Normal Status   Sample	-		Client Info		Not Changd		
Iron							
Chromium         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         0             Tittanium         ppm         ASTM D5185m         0             Silver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         >25         0             Lead         ppm         ASTM D5185m         >50         <1             Copper         ppm         ASTM D5185m         0             Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             Boron         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0 <th>WEAR METALS</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	0		
Titanium	Chromium	ppm	ASTM D5185m	>10	0		
Silver	Nickel	ppm	ASTM D5185m		0		
Aluminum         ppm         ASTM D5185m         >2.25         0             Lead         ppm         ASTM D5185m         >2.5         0             Copper         ppm         ASTM D5185m         >50         <1             Tin         ppm         ASTM D5185m         0             Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             Boron         ppm         ASTM D5185m         0             Boron         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         28             Zinc         ppm         ASTM D5185m         80	Titanium	ppm	ASTM D5185m		0		
Lead	Silver	ppm	ASTM D5185m		0		
Copper         ppm         ASTM D5185m         >50         <1	Aluminum	ppm	ASTM D5185m	>25	0		
Tin         ppm         ASTM D5185m         >15         0             Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history1           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             Calcium         ppm         ASTM D5185m         28             Phosphorus         ppm         ASTM D5185m         28             Sulfur         ppm         ASTM D5185m         80             Contaking         ppm         ASTM D5185m         25         7	Lead	ppm	ASTM D5185m	>25	0		
Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history1           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             Phosphorus         ppm         ASTM D5185m         28             Phosphorus         ppm         ASTM D5185m         80             Zinc         ppm         ASTM D5185m         80             Zinc         ppm         ASTM D5185m         225         7             Silicon         ppm         ASTM D5185m         >25         7 <th< th=""><th>Copper</th><th>ppm</th><th>ASTM D5185m</th><th>&gt;50</th><th>&lt;1</th><th></th><th></th></th<>	Copper	ppm	ASTM D5185m	>50	<1		
Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           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             Phosphorus         ppm         ASTM D5185m         28             Phosphorus         ppm         ASTM D5185m         161             Sulfur         ppm         ASTM D5185m         80             Sulfur         ppm         ASTM D5185m         3             Silicon         ppm         ASTM D5185m         3             Sodium         ppm         ASTM D5185m         3 <th>Tin</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;15</th> <th>0</th> <th></th> <th></th>	Tin	ppm	ASTM D5185m	>15	0		
ADDITIVES	Vanadium	ppm	ASTM D5185m		0		
Boron	Cadmium	ppm	ASTM D5185m		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         28             Phosphorus         ppm         ASTM D5185m         28             Zinc         ppm         ASTM D5185m         80             Sulfur         ppm         ASTM D5185m         80             Sulfur         ppm         ASTM D5185m         >25         7             Sodium         ppm         ASTM D5185m         >25         7             Potassium         ppm         ASTM D5185m         >20         <1             FLUID DEGRADATION         method         limit/base         current         history1         history           Acid Number (AN)         mg KOHg         ASTM D8045         0.40             Visual         NONE         N	Boron	ppm	ASTM D5185m		0		
Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         28             Phosphorus         ppm         ASTM D5185m         28             Zinc         ppm         ASTM D5185m         80             Sulfur         ppm         ASTM D5185m         80             Sulfur         ppm         ASTM D5185m         >25         7             Sodium         ppm         ASTM D5185m         3             Sodium         ppm         ASTM D5185m         3             Potassium         ppm         ASTM D5185m         >20         <1             FLUID DEGRADATION         method         limit/base         current         history1         history1           Acid Number (AN)         mg KOHlg         ASTM D8045         0.40             VISUAL         method         limit/base	Barium	ppm	ASTM D5185m		0		
Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         28             Zinc         ppm         ASTM D5185m         161             Sulfur         ppm         ASTM D5185m         80             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         7             Sodium         ppm         ASTM D5185m         >20         <1             Potassium         ppm         ASTM D5185m         >20         <1             FLUID DEGRADATION         method         limit/base         current         history1         history1           Acid Number (AN)         mg KOH/g         ASTM D8045         0.40             VISUAL         method         limit/base         current         history1         history1           White Me	Molybdenum	ppm	ASTM D5185m		0		
Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         28             Zinc         ppm         ASTM D5185m         161             Sulfur         ppm         ASTM D5185m         80             Sulfur         ppm         ASTM D5185m         >25         7             Silicon         ppm         ASTM D5185m         >25         7             Sodium         ppm         ASTM D5185m         >20         <1             Potassium         ppm         ASTM D5185m         >20         <1             FLUID DEGRADATION         method         limit/base         current         history1         history1           Acid Number (AN)         mg KOH/g         ASTM D8045         0.40             VISUAL         method         limit/base         current         history1         history2           Visual         NONE         NONE             Yellow Metal         scalar <th>Manganese</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th></th> <th></th>	Manganese	ppm	ASTM D5185m		0		
Phosphorus         ppm         ASTM D5185m         28             Zinc         ppm         ASTM D5185m         161             Sulfur         ppm         ASTM D5185m         80             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         3             Sodium         ppm         ASTM D5185m         3             Potassium         ppm         ASTM D5185m         >20         <1             FLUID DEGRADATION         method         limit/base         current         history1         history1           Acid Number (AN)         mg KOH/g         ASTM D8045         0.40             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE	Magnesium	ppm	ASTM D5185m		0		
Zinc         ppm         ASTM D5185m         161             Sulfur         ppm         ASTM D5185m         80             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         7              Sodium         ppm         ASTM D5185m         >20         <1	Calcium	ppm	ASTM D5185m		0		
Sulfur         ppm         ASTM D5185m         80             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         7             Sodium         ppm         ASTM D5185m         3              Potassium         ppm         ASTM D5185m         >20         <1             FLUID DEGRADATION         method         limit/base         current         history1         history1           Acid Number (AN)         mg KOH/g         ASTM D8045         0.40             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         MODER             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE	Phosphorus	ppm	ASTM D5185m		28		
CONTAMINANTS method limit/base current history1 history  Silicon ppm ASTM D5185m >25 7 Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m >20 <1  FLUID DEGRADATION method limit/base current history1 history  Acid Number (AN) mg KOH/g ASTM D8045 0.40  VISUAL method limit/base current history1 history  White Metal scalar *Visual NONE MODER Yellow Metal scalar *Visual NONE NONE  Precipitate scalar *Visual NONE NONE  Silt scalar *Visual NONE NONE  Silt scalar *Visual NONE NONE  Sand/Dirt scalar *Visual NONE NONE  Appearance scalar *Visual NONE NONE  Appearance scalar *Visual NONE NONE	Zinc	ppm	ASTM D5185m		161		
Silicon         ppm         ASTM D5185m         >25         7             Sodium         ppm         ASTM D5185m         3              Potassium         ppm         ASTM D5185m         >20         <1	Sulfur	ppm	ASTM D5185m		80		
Sodium         ppm         ASTM D5185m         3             Potassium         ppm         ASTM D5185m         >20         <1             FLUID DEGRADATION         method         limit/base         current         history1         history1           Acid Number (AN)         mg KOH/g         ASTM D8045         0.40             VISUAL         method         limit/base         current         history1         history1           White Metal         scalar         *Visual         NONE         MODER             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	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1 FLUID DEGRADATION method limit/base current history1 history  Acid Number (AN) mg KOH/g ASTM D8045 0.40   VISUAL method limit/base current history1 history  White Metal scalar *Visual NONE MODER    Yellow Metal 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 NONE NONE    NONE NONE    Appearance scalar *Visual NONE NONE    NORML NORML	Silicon	ppm	ASTM D5185m	>25	7		
FLUID DEGRADATION method limit/base current history1 history  Acid Number (AN) mg KOH/g ASTM D8045 0.40  VISUAL method limit/base current history1 history  White Metal scalar *Visual NONE MODER  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	Sodium	ppm	ASTM D5185m		3		
Acid Number (AN)         mg KOH/g         ASTM D8045         0.40              VISUAL         method         limit/base         current         history1         history1           White Metal         scalar         *Visual         NONE         MODER             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	Potassium	ppm	ASTM D5185m	>20	<1		
VISUAL method limit/base current history1 history  White Metal scalar *Visual NONE MODER  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	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
White Metal         scalar         *Visual         NONE         MODER             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	Acid Number (AN)	mg KOH/g	ASTM D8045		0.40		
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	VISUAL		method			history1	history2
Precipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORML							
Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML					NONE		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORML							
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML							
Appearance scalar *Visual NORML NORML							
	Sand/Dirt			NONE	NONE		
Odor scalar *Visual NORML NORML		scalar					
		scalar	*Visual	NORML			
Emulsified Water scalar *Visual >0.1 NEG		scalar		>0.1			
Free Water scalar *Visual NEG	Free Water	scalar	*Visual		NEG		



# **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory Sample No. Lab Number

: 05996819 Unique Number : 10725179 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : UCH05996819 Received : 02 Nov 2023 : 04 Nov 2023 Diagnosed

Diagnostician : Don Baldridge

ADVANCED COMPRESSED AIR SOLUTIONS (ACAS) 9421 FM 2920 RD BLDG 23

TOMBALL, TX US 77375

Contact: JIM SUAREZ

jim@advancedcompressedair.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)

Report Id: UCADVTOM [WUSCAR] 05996819 (Generated: 11/04/2023 11:37:12) Rev: 1

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