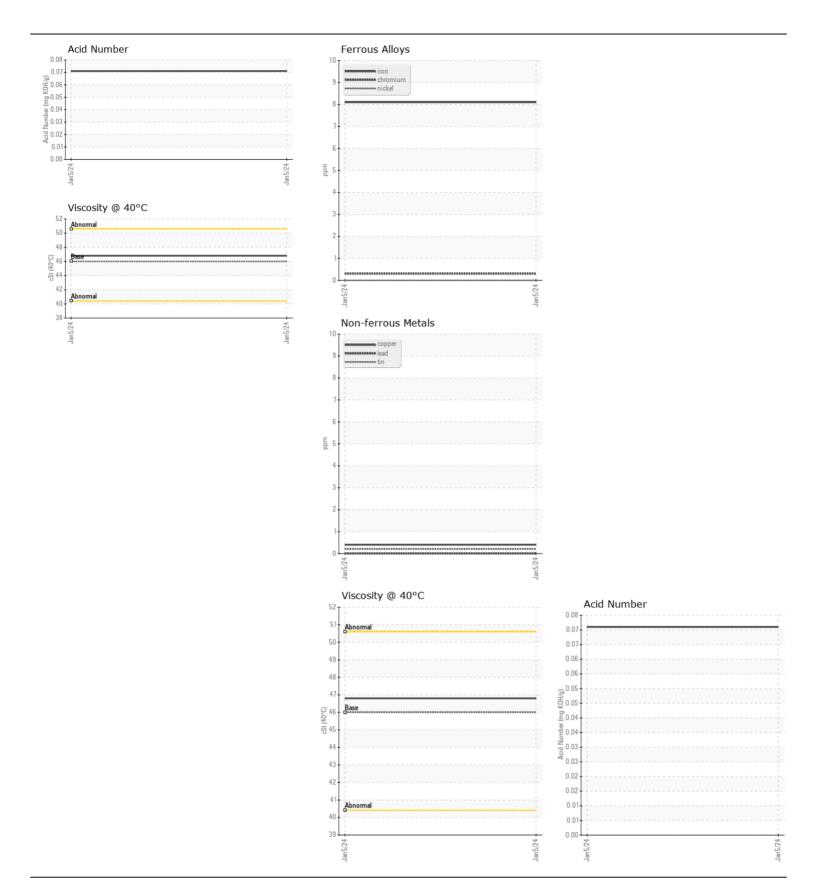
**WEAR** CONTAMINATION **FLUID CONDITION**  **ABNORMAL** NORMAL **NORMAL** 

## **COMPRESSOR 4 (S/N 18880)**

Component Compressor

Sample Number   Client Info   CS2008487	INGERSOLL-RAND TURBOBLEND 46 ( GAL)	)						
Sample Number   Client Info   CS2008487	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Ne advise that you inspect for the source(s) of metal. Resample at the extra service interval to monitor. We were unable to perform a particle pount due to metal particles present in this sample.    National Color   Filter Age   Firs   Client Info   0   0   0   0   0   0   0   0   0	We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of metal. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.	Sample Number		Client Info				
Oil Age   hrs   Cilent Info   O		Sample Date		Client Info		05 Jan 2024		
Dil Age   Pire   Client Info   O   O   O   O   O   O   O   O   O		Machine Age	hrs	Client Info		51246		
Oil Changed   Cilent Info   Not Changed   Cilent Info   Sample Status   Sample Status   ABNORMAL   Cilent Info   Sample Status		Oil Age	hrs	Client Info		0		
Filter Changed   Cilient Info   N/A   ABNORMAL   ABNO		Filter Age	hrs	Client Info		0		
VEAR		Oil Changed		Client Info		Not Changd		
VEAR		Filter Changed		Client Info		N/A		
Chromium   Chromium		Sample Status				ABNORMAL		
Nickel   ppm   ASTM D5185m   0	WEAR	Iron	ppm	ASTM D5185m	>50	8		
Nickel   ppm   ASTM D5165m   0	Moderate concentration of visible metal present. All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1		
Silver   ppm   ASTM D6185m   25   2         Aluminum   ppm   ASTM D6185m   255   2         Copper   ppm   ASTM D6185m   255   0         Copper   ppm   ASTM D6185m   255   0         Tin   ppm   ASTM D6185m   50   <1         Vanadium   ppm   ASTM D6185m   50   <1         Vanadium   ppm   ASTM D6185m   50   <1         Visual   NONE   MODER         Visual   NONE   MODER         Visual   NONE   NONE         Visual   NONE   NONE         Visual   NONE   NONE         Visual   NONE   NONE         Silt   scalar   Visual   NONE   NONE       Debris   scalar   Visual   NONE   NONE         Debris   scalar   Visual   NONE   NONE         Debris   scalar   Visual   NONE   NONE         Debris   scalar   Visual   NONE   NONE         Debris   scalar   Visual   NONE   NONE         Debris   scalar   Visual   NONE   NONE         Debris   scalar   Visual   NONE   NONE         Debris   scalar   Visual   NONE   NONE         Debris   scalar   Visual   NONE   NONE         Debris   scalar   Visual   NONE   NONE           Debris   scalar   Visual   NONE   NONE           Debris   scalar   Visual   NONE   NONE             Debris   scalar   Visual   NONE   NONE               Debris   scalar   Visual   NONE   NONE   .		Nickel	ppm	ASTM D5185m		0		
Aluminum   ppm   ASTM 05185m   >25   2		Titanium	ppm	ASTM D5185m		<1		
Lead		Silver	ppm	ASTM D5185m		0		
Copper		Aluminum	ppm	ASTM D5185m	>25	2		
Tin ppm ASTM D5185m 15		Lead	ppm	ASTM D5185m	>25	0		
Vanadium		Copper	ppm	ASTM D5185m	>50	<1		
White Metal   Scalar   Visual   NONE   NO		Tin	ppm	ASTM D5185m	>15	<1		
Yellow Metal   Scalar   "Visual   NONE   NONE		Vanadium	ppm	ASTM D5185m		0		
Silicon   ppm   ASTM D5185m   >25   0		White Metal	scalar	*Visual	NONE	▲ MODER		
Potassium   ppm   ASTM D5185m   >20   1		Yellow Metal	scalar	*Visual	NONE	NONE		
No other contaminants were detected in the oil.   Potassium   pym   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   NORML   NORML   NORML           Appearance   scalar   *Visual   NORML   NORML   NORML   NORML           Debris   scalar   *Visual   NORML   NO	CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	0		
Water   WC Method   >0.1   NEG         Silt   scalar   *Visual   NONE   NONE         Debris   scalar   *Visual   NONE   NONE         Debris   scalar   *Visual   NONE   NONE         Sand/Dirt   scalar   *Visual   NORM   N	No other contaminants were detected in the oil.	Potassium		ASTM D5185m	>20	1		
Debris   Scalar   *Visual   NONE   NONE   Sand/Dirt   Scalar   *Visual   NONE   NONE   Sand/Dirt   Scalar   *Visual   NONE   NORML		Water		WC Method	>0.1	NEG		
Sand/Dirt   Scalar   "Visual   NONE   NONE   NONE   Appearance   Scalar   "Visual   NORML		Silt	scalar	*Visual	NONE	NONE		
Appearance   Scalar   *Visual   NORML   NORM		Debris	scalar	*Visual	NONE	NONE		
Odor		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water   scalar   *Visual   >0.1   NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium   ppm   ASTM D5185m   0		Odor	scalar	*Visual	NORML	NORML		
Boron   ppm   ASTM D5185m   0           Barium   ppm   ASTM D5185m   0         Molybdenum   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   38         Zinc   ppm   ASTM D5185m   0         Sulfur   ppm   ASTM D5185m   0         Acid Number (AN)   mg KOH/g   ASTM D8045   0.071		Emulsified Water	scalar	*Visual	>0.1	NEG		
Boron   ppm   ASTM D5185m   0         Barium   ppm   ASTM D5185m   0         Molybdenum   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   38         Zinc   ppm   ASTM D5185m   0         Sulfur   ppm   ASTM D5185m   0         Acid Number (AN)   mg KOH/g   ASTM D8045   0.071	FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
Barium   ppm   ASTM D5185m   0         Molybdenum   ppm   ASTM D5185m   c1         Manganese   ppm   ASTM D5185m   0         Magnesium   ppm   ASTM D5185m   0         Calcium   ppm   ASTM D5185m   c1         Phosphorus   ppm   ASTM D5185m   38         Zinc   ppm   ASTM D5185m   0         Sulfur   ppm   ASTM D5185m   0         Acid Number (AN)   mg KOH/g   ASTM D8045   0.071	The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Boron		ASTM D5185m		0		
Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         <1		Barium	ppm			0		
Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         <1		Molybdenum	ppm	ASTM D5185m		<1		
Calcium         ppm         ASTM D5185m         <1		Manganese	ppm	ASTM D5185m		0		
Phosphorus         ppm         ASTM D5185m         38             Zinc         ppm         ASTM D5185m         0             Sulfur         ppm         ASTM D5185m         0             Acid Number (AN)         mg KOH/g         ASTM D8045         0.071		Magnesium	ppm	ASTM D5185m		0		
Zinc         ppm         ASTM D5185m         0             Sulfur         ppm         ASTM D5185m         0             Acid Number (AN)         mg KOH/g         ASTM D8045         0.071		Calcium	ppm	ASTM D5185m		<1		
Sulfur         ppm         ASTM D5185m         0             Acid Number (AN)         mg KOH/g         ASTM D8045         0.071		Phosphorus	ppm	ASTM D5185m		38		
Acid Number (AN)         mg KOH/g         ASTM D8045         0.071		Zinc	ppm	ASTM D5185m		0		
		Sulfur	ppm	ASTM D5185m		0		
Visc @ 40°C		Acid Number (AN)	mg KOH/g	ASTM D8045		0.071		
1.50 @ 10 O		Visc @ 40°C	cSt	ASTM D445	46	46.8		







Certificate L2367

Laboratory Sample No. Lab Number

: 06061917 Unique Number : 10833299

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : CCSI2008487 Recieved Diagnosed

Diagnostician : Don Baldridge Test Package : IND 2 ( Additional Tests: PrtCount )

: 16 Jan 2024

: 18 Jan 2024

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)

**BALL METAL BEVERAGE PACKAGING** 

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