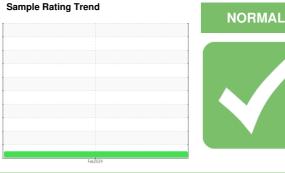


# **OIL ANALYSIS REPORT**

# ROTO XTEND [417487] Machine Id ATLAS COPCO ITJ611109 - STEPHAN

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

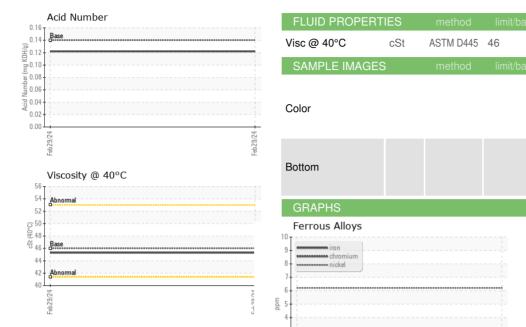
## Fluid Condition

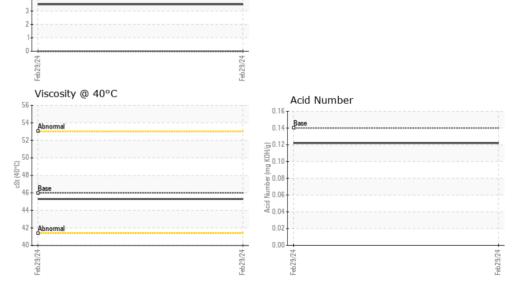
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Number   Client Info   UCH06125775					Feb 2024		
Client Info   29 Feb 2024	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date   Client Info   29 Feb 2024	Sample Number		Client Info		UCH06125775		
Machine Age			Client Info		29 Feb 2024		
Oil Changed		hrs	Client Info		823		
NORMAL	Oil Age	hrs	Client Info		823		
NORMAL	Oil Changed		Client Info		Not Changd		
Chromium	Sample Status				NORMAL		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	<1		
Description	Chromium	ppm	ASTM D5185m	>5	0		
Aluminum	Nickel	ppm	ASTM D5185m		6		
Aluminum	Titanium	ppm	ASTM D5185m		0		
Lead	Silver	ppm	ASTM D5185m		0		
Copper	Aluminum	ppm	ASTM D5185m	>15	0		
Tin	Lead	ppm	ASTM D5185m	>65	0		
Tin	Copper	ppm	ASTM D5185m	>65	4		
Vanadium         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             Mangaese         ppm         ASTM D5185m         0             Mangaesium         ppm         ASTM D5185m         3             Calcium         ppm         ASTM D5185m         3             Phosphorus         ppm         ASTM D5185m         47             Sulfur         ppm         ASTM D5185m         208             CONTAMINANTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D5185m         >35         3             Potassium         ppm         ASTM D5185m         >20	Tin		ASTM D5185m	>10	0		
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             Magnesium         ppm         ASTM D5185m         3             Magnesium         ppm         ASTM D5185m         3             Calcium         ppm         ASTM D5185m         3             Phosphorus         ppm         ASTM D5185m         47             Sulfur         ppm         ASTM D5185m         208             Sulfur         ppm         ASTM D5185m         >35         3             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >35	Vanadium		ASTM D5185m		0		
Boron	Cadmium				0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         3             Calcium         ppm         ASTM D5185m         47             Phosphorus         ppm         ASTM D5185m         41             Zinc         ppm         ASTM D5185m         208             Sulfur         ppm         ASTM D5185m         208             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >35         3             Sodium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             Water         %         ASTM D6304         >0.1         NEG             FLUID DEGRADATION         method <td>Boron</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td></td> <td></td>	Boron	ppm	ASTM D5185m		0		
Manganese         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         3             Phosphorus         ppm         ASTM D5185m         47             Zinc         ppm         ASTM D5185m         41             Sulfur         ppm         ASTM D5185m         208             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         33             Sodium         ppm         ASTM D5185m         33             Potassium         ppm         ASTM D5185m         33             Water         %         ASTM D6304         >0.1         NEG             FLUID DEGRADATION         method         limit/base         current         history1         history2           Acid Number (AN)         mg KOH'g         ASTM D8045         0.14         0.122             VISUAL         method         <	Barium	ppm	ASTM D5185m		4		
Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         3             Phosphorus         ppm         ASTM D5185m         47             Zinc         ppm         ASTM D5185m         41             Sulfur         ppm         ASTM D5185m         208             Sulfur         ppm         ASTM D5185m         208             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >35         3             Sodium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             Water         %         ASTM D6304         >0.1         NEG             FLUID DEGRADATION         method         limit/base         current         history1         history2           VisuAL         <	Molybdenum	ppm	ASTM D5185m		0		
Calcium         ppm         ASTM D5185m         3             Phosphorus         ppm         ASTM D5185m         47             Zinc         ppm         ASTM D5185m         208             Sulfur         ppm         ASTM D5185m         208             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         3             Sodium         ppm         ASTM D5185m         6             Potassium         ppm         ASTM D5185m         >20         0             Potassium	-		ASTM D5185m		0		
Calcium         ppm         ASTM D5185m         3             Phosphorus         ppm         ASTM D5185m         47             Zinc         ppm         ASTM D5185m         208             Sulfur         ppm         ASTM D5185m         208             Sulfur         ppm         ASTM D5185m         208             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         3             Sodium         ppm         ASTM D5185m         >35         3             Sodium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             Water         %         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             Potassium         ppm </td <td>Magnesium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>3</td> <td></td> <td></td>	Magnesium	ppm	ASTM D5185m		3		
Phosphorus         ppm         ASTM D5185m         47             Zinc         ppm         ASTM D5185m         41             Sulfur         ppm         ASTM D5185m         208             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         6             Sodium         ppm         ASTM D5185m         6             Potassium         ppm         ASTM D5185m         >20         0             Water         %         ASTM D6304         >0.1         NEG             FLUID DEGRADATION         method         limit/base         current         history1         history2           Acid Number (AN)         mg KOH/g         ASTM D6304         >0.14         0.122             FLUID DEGRADATION         method         limit/base         current         history1         history2           VISUAL         method         limit/base         current         history1         history2	-		ASTM D5185m		3		
ASTM D5185m   ASTM D5185m   ATM D5185m   ASTM D6304   ASTM D6304	Phosphorus		ASTM D5185m		47		
Sulfur         ppm         ASTM D5185m         208             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >35         3             Sodium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             Water         %         ASTM D6304         >0.1         NEG             FLUID DEGRADATION         method         limit/base         current         history1         history2           Acid Number (AN)         mg KOH/g         ASTM D8045         0.14         0.122             Acid Number (AN)         mg KOH/g         ASTM D8045         0.14         0.122             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         LIGHT             Yellow Metal         scalar         *Visu			ASTM D5185m		41		
Silicon	Sulfur				208		
Sodium	CONTAMINANTS	8	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         0             Water         %         ASTM D6304         >0.1         NEG             FLUID DEGRADATION method limit/base current         history1         history2           Acid Number (AN)         mg KOH/g         ASTM D8045         0.14         0.122             VISUAL         method limit/base current         history1         history2           White Metal         scalar *Visual         NONE         LIGHT            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         NORM         NORML            Appearance         scalar *Visual         NORML         NORML            Codor         scalar *Visual         NORML         NORML            Codor         scalar *Visual	Silicon	ppm	ASTM D5185m	>35	3		
Water         %         ASTM D6304         >0.1         NEG             FLUID DEGRADATION         method         limit/base         current         history1         history2           Acid Number (AN)         mg KOH/g         ASTM D8045         0.14         0.122             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         LIGHT             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             Odor	Sodium	ppm	ASTM D5185m		6		
FLUID DEGRADATION         method         limit/base         current         history1         history2           Acid Number (AN)         mg KOH/g         ASTM D8045         0.14         0.122             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         LIGHT             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             Godor         scalar         *Visual         NORML         NORML             Emulsified Water	Potassium	ppm	ASTM D5185m	>20	0		
VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         LIGHT             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             Codor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.1         NEG	Water	%	ASTM D6304	>0.1	NEG		
VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         LIGHT             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             Codor         scalar         *Visual         >0.1         NEG	FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
White Metal         scalar         *Visual         NONE         LIGHT             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             Codor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.1         NEG	Acid Number (AN)	mg KOH/g	ASTM D8045	0.14	0.122		
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             Codor         scalar         *Visual         >0.1         NEG	VISUAL		method	limit/base	current	history1	history2
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             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.1         NEG	White Metal	scalar	*Visual	NONE	LIGHT		
Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Ddor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.1         NEG	Yellow Metal	scalar	*Visual	NONE	NONE		
Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.1         NEG	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirt         scalar         *Visual         NONE              Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.1         NEG	Silt	scalar	*Visual	NONE	NONE		
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
	Free Water	scalar	*Visual		NEG	ation:-ELVIN DI	AZ - UCAIRCA



## **OIL ANALYSIS REPORT**





45.3

no image

no image

no image

no image



Laboratory Sample No.

Lab Number : 06125775 Unique Number: 10939926

: UCH06125775

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Non-ferrous Metals

Received **Tested** Diagnosed

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 21 Mar 2024

: 26 Mar 2024 : 26 Mar 2024 - Jonathan Hester

**AIRMATIC COMPRESSOR SYSTEMS** 

700 WASHINGTON AVE

CARLSTADT, NJ US 07072

Contact: ELVIN DIAZ ediaz@air matic compressor.com; can a stasio@we archeckus a.com

T: (800)864-7621 F: (201)342-6241

Contact/Location: ELVIN DIAZ - UCAIRCAR

Test Package: IND 2 (Additional Tests: KF, PrtCount) To discuss this sample report, contact Customer Service at 1-800-237-1369.

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