

# **PROBLEM SUMMARY**

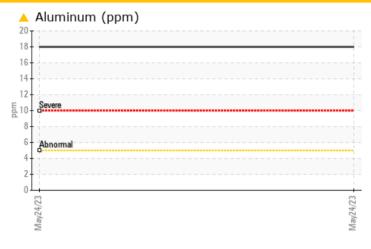
# Sample Rating Trend WEAR

# KAESER KAESER 4 THR

Component Screw Compressor

POLYGUARD 68 (--- LTR)

## **COMPONENT CONDITION SUMMARY**



### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status				ABNORMAL						
Aluminum	ppm	ASTM D5185m	>5	<u></u> 18						

Customer Id: PAEMON
Sample No.: RP0032918
Lab Number: 05900752
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

# RECOMMENDED ACTIONS

There are no recommended actions for this sample.

# HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

Sample Rating Trend

WEAR



Machine Id

# **KAESER KAESER 4 THR**

Component

**Screw Compressor** 

POLYGUARD 68 (--- LTR)

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

The aluminum level is abnormal. All other 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.

WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >60         5             Chromium         ppm         ASTM D5185m         >4         0             Nickel         ppm         ASTM D5185m         >3         <1             Silver         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >5         ▲ 18             Lead         ppm         ASTM D5185m         >10         <1             Copper         ppm         ASTM D5185m         >30         4             Tin         ppm         ASTM D5185m         >15         <1             Vanadium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0							
Sample Number					May2023		
Sample Number   Client Info   RP0032918	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date   Client Info   24 May 2023	Sample Number		Client Info		RP0032918		
Machine Age   hrs   Client Info   1637             Oil Age   hrs   Client Info   1637           Oil Changed   Client Info   Not Changd         Sample Status							
Oil Age         hrs         Client Info         1637             Oil Changed Sample Status         Client Info         Not Changd             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >60         5             Chromium         ppm         ASTM D5185m         >3         <1	•	hre			-		
Oil Changed Sample Status         Client Info         Not Changd ABNORMAL	•						
MEAR METALS	-	1110					
Iron	Sample Status						
Chromium         ppm         ASTM D5185m         >4         0             Nickel         ppm         ASTM D5185m         >3         <1             Titanium         ppm         ASTM D5185m         >3         0             Silver         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >5         18             Aluminum         ppm         ASTM D5185m         >10         <1             Lead         ppm         ASTM D5185m         30         4             Tin         ppm         ASTM D5185m         0             Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             Boron         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Malpaganesium	WEAR METALS		method	limit/base	current	history1	history2
Chromium         ppm         ASTM D5185m         ≥4         0             Nickel         ppm         ASTM D5185m         >3         <1	Iron	ppm	ASTM D5185m	>60	5		
Nickel	Chromium		ASTM D5185m	>4	0		
Titanium         ppm         ASTM D5185m         >3         0             Silver         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >5         ▲ 18             Lead         ppm         ASTM D5185m         >10         <1	Nickel		ASTM D5185m	>3	<1		
Silver	Titanium		ASTM D5185m	>3	0		
Aluminum ppm ASTM D5185m > 5	Silver			>2	0		
Lead	Aluminum		ASTM D5185m	>5	<u> 18</u>		
Copper         ppm         ASTM D5185m         >30         4             Tin         ppm         ASTM D5185m         >15         <1	Lead			>10	<1		
Tin	Copper		ASTM D5185m	>30	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             Magnesium         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         155             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >0         0             Sodium         ppm         ASTM D5185m         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             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         398             Zinc         ppm         ASTM D5185m         155             Zinc         ppm         ASTM D5185m         0             Silicon         ppm         ASTM D5185m         >50         0             Sodium         ppm         ASTM D5185m         >50         0							
ADDITIVES					-		
Boron   ppm   ASTM D5185m   0		ррпп		line it /le e e e		lai atawa 4	history.0
Barium				imivbase		nistory i	nistory2
Molybdenum         ppm         ASTM D5185m         <1             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         398             Phosphorus         ppm         ASTM D5185m         398             Zinc         ppm         ASTM D5185m         398             Zinc         ppm         ASTM D5185m         155             Zinc         ppm         ASTM D5185m         >50         0             Sodium         ppm         ASTM D5185m         >0              Potassium         ppm         ASTM D5185m         >20         0             Water         %         ASTM D6304         >0.05         0.004             Ppm Water         ppm         ASTM D6304         >500         49.2             FLUID DEGRADATION         metho							
Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         <1					-		
Magnesium         ppm         ASTM D5185m         <1	•						
Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         398             Zinc         ppm         ASTM D5185m         155             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         0             Sodium         ppm         ASTM D5185m         0              Potassium         ppm         ASTM D5185m         >20         0             Water         %         ASTM D6304         >0.05         0.004             Water         %         ASTM D6304         >500         49.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Acid Number (AN)         mg KOHlg         ASTM D8045         1.23             VISUAL         method         limit/base         current         history1         history2	•				-		
Phosphorus         ppm         ASTM D5185m         398             Zinc         ppm         ASTM D5185m         155             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         50         0             Sodium         ppm         ASTM D5185m         0              Potassium         ppm         ASTM D5185m         20         0             Water         %         ASTM D6185m         >20         0             Water         %         ASTM D5185m         >20         0             Water         %         ASTM D5185m         >0.05         0.004             Water         %         ASTM D5185m         >0.05         0.004             Water         %         ASTM D5185m         >0.0         0.004             FLUID DEGRADATION         method         limit/base         current         history1							
Zinc         ppm         ASTM D5185m         155             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         0             Sodium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             Water         %         ASTM D5185m         >20         0             Water         %         ASTM D5185m         >0.004             Water         %         ASTM D5185m         >0             Water         %         ASTM D5185m         >0         0             Water         %         ASTM D5185m         >0.05         0.004             Water         %         ASTM D6304         >0.05         0.004             FLUID DEGRADATION         method         limit/base         current         history1         history2					-		
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         0             Sodium         ppm         ASTM D5185m         0             Potassium         ppm         ASTM D5185m         >20         0             Water         %         ASTM D6304         >0.05         0.004             ppm Water         ppm         ASTM D6304         >500         49.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Acid Number (AN)         mg KOH/g         ASTM D8045         1.23             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE            Precipitate         scalar         *Visual         NONE         NONE <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Silicon         ppm         ASTM D5185m         >50         0             Sodium         ppm         ASTM D5185m         0             Potassium         ppm         ASTM D5185m         >20         0             Water         %         ASTM D6304         >0.05         0.004             ppm Water         ppm         ASTM D6304         >500         49.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Acid Number (AN)         mg KOH/g         ASTM D8045         1.23             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 <th< td=""><td>Zinc</td><td>ppm</td><td>ASTM D5185m</td><td></td><td>155</td><td></td><td></td></th<>	Zinc	ppm	ASTM D5185m		155		
Sodium	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         0             Water         %         ASTM D6304         >0.05         0.004             ppm Water         ppm         ASTM D6304         >500         49.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Acid Number (AN)         mg KOH/g         ASTM D8045         1.23             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         NORML         NORML	Silicon	ppm	ASTM D5185m	>50	0		
Water         %         ASTM D6304         >0.05         0.004             ppm Water         ppm         ASTM D6304         >500         49.2             FLUID DEGRADATION method limit/base current         history1         history2           Acid Number (AN) mg KOH/g         ASTM D8045         1.23             VISUAL         method limit/base current         history1         history2           White Metal scalar *Visual NONE NONE             Yellow Metal scalar *Visual NONE NONE         NONE             Precipitate scalar *Visual NONE NONE         NONE             Silt scalar *Visual NONE NONE         NONE             Debris scalar *Visual NONE NONE         NONE             Sand/Dirt scalar *Visual NONE NONE         NONE             Appearance scalar *Visual NORML NORML         NORML	Sodium	ppm	ASTM D5185m		0		
ppm Water         ppm         ASTM D6304         >500         49.2             FLUID DEGRADATION method limit/base current         history1         history2           Acid Number (AN)         mg KOH/g         ASTM D8045         1.23             VISUAL         method limit/base current         history1         history2           White Metal         scalar *Visual         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         NORML         NORML             Appearance         scalar *Visual         NORML         NORML	Potassium	ppm	ASTM D5185m	>20	0		
FLUID DEGRADATION         method         limit/base         current         history1         history2           Acid Number (AN)         mg KOH/g         ASTM D8045         1.23             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE            Precipitate         scalar         *Visual         NONE         NONE            Silt         scalar         *Visual         NONE         NONE            Debris         scalar         *Visual         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML	Water	%	ASTM D6304	>0.05	0.004		
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         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML	ppm Water	ppm	ASTM D6304	>500	49.2		
VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         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         NORML         NORML            Appearance         scalar         *Visual         NORML         NORML            Odor         scalar         *Visual         NORML         NORML	FLUID DEGRADA	TION	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         NORML         NORML             Odor         scalar         *Visual         NORML         NORML	Acid Number (AN)	mg KOH/g	ASTM D8045		1.23		
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         scalar         *Visual         NORML         NORML	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	White Metal	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	Yellow Metal	scalar	*Visual	NONE	NONE		
Debris         scalar         *Visual         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE            Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML	Silt	scalar	*Visual	NONE	NONE		
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML	Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML NORML	Sand/Dirt	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML NORML	Appearance	scalar	*Visual	NORML			
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.05	NEG		

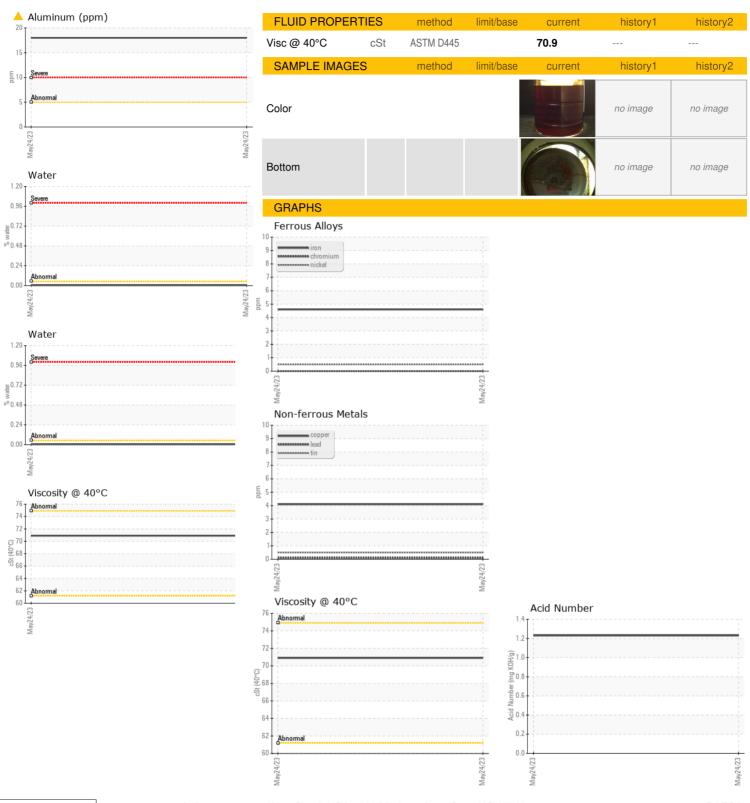
MARCELA TOVAR -- PAEMON

NEG

scalar \*Visual



# **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0032918 : 05900752

: 10562108

Received : 17 Jul 2023 Diagnosed : 19 Jul 2023 Diagnostician : Angela Borella

**PAESA** CHAPULTEPEE 304-A COL. REGINA MONTERREY,

NL

Contact: MARCELA TOVAR marcelatovar@grupoati.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)

F: