

# **PROBLEM SUMMARY**

**VIS DEBRIS** 

8042931 (S/N 1135)

Component

Compressor

KAESER SIGMA (OEM) S-460 (--- GAL)

## **COMPONENT CONDITION SUMMARY**

No relevant graphs to display

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC T	EST RE	SULTS			
Sample Status				ABNORMAL	 
Debris	scalar	*Visual	NONE	▲ MODER	 

Sample Rating Trend

Customer Id: WILBYR Sample No.: KC96765 Lab Number: 05628373 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

Action Status Date Done By Description  Change Fluid ? Oil and filter change at the time of sampling has been noted.	
onange i rota	
Change Filter	
Change Filter ? Oil and filter change at the time of sampling has been noted.	
Alert ? We were unable to perform a particle count due to a high co particles present in this sample.	ncentration of



# **OIL ANALYSIS REPORT**

DT Sa



Machine Id

8042931 (S/N 1135)

Component

Compressor

KAESER SIGMA (OEM) S-460 (--- GAL)

## DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### Wear

All component wear rates are normal.

#### Contamination

Moderate concentration of visible dirt/debris present in the oil.

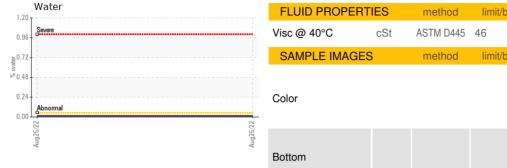
### **Fluid Condition**

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

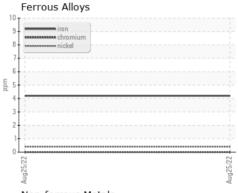
Sample Number					Aug2022		
Sample Date     25 Aug 2022	SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Date	Sample Number				KC96765		
Machine Age   hrs   2012					25 Aug 2022		
Dit Age		hrs			_		
Changed   Chan	Oil Age	hrs			2012		
Machine   Mach	Oil Changed				Changed		
Chromium	Sample Status				_		
Chromium	WEAR METALS		method	limit/base	current	history 1	history 2
ASTM D5185m   S3	ron	ppm	ASTM D5185m	>50	4		
Description	Chromium	ppm	ASTM D5185m	>10	0		
ASTM D5185m   >2	Nickel	ppm	ASTM D5185m	>3	<1		
Aluminum ppm ASTM D5185m >10 4	Titanium	ppm	ASTM D5185m	>3	0		
December   December	Silver	ppm	ASTM D5185m	>2	<1		
Description	Aluminum	ppm	ASTM D5185m	>10	4		
Description	_ead		ASTM D5185m	>10	0		
ASTM D5185m   D	Copper			>50	10		
Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history 1         history 2           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             Phosphorus         ppm         ASTM D5185m         2         0             Phosphorus         ppm         ASTM D5185m         6              CONTAMINANTS         method         limit/base         current         history 1         history 2           Solicon         ppm         ASTM D5185m         >25         5             CONTAMINANTS         method <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>					-		
ADDITIVES							
Boron	Cadmium				_		
Sarium	ADDITIVES		method	limit/base	current	history 1	history 2
Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         90         4             Calcium         ppm         ASTM D5185m         2         0             Phosphorus         ppm         ASTM D5185m         2         0             Zinc         ppm         ASTM D5185m         6              CONTAMINANTS         method         limit/base         current         history 1         history 2           Silicon         ppm         ASTM D5185m         >25         5             Coldium         ppm         ASTM D5185m         >25         5             Potatassium         ppm         ASTM D5185m         >20         0             Vater         %         ASTM D6185m         >20         0             Vater         %         ASTM D5185m         >20         0	Boron	ppm	ASTM D5185m		0		
Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         90         4             Calcium         ppm         ASTM D5185m         2         0             Phosphorus         ppm         ASTM D5185m         <1	Barium	ppm	ASTM D5185m	90	0		
Magnesium         ppm         ASTM D5185m         90         4             Calcium         ppm         ASTM D5185m         2         0             Phosphorus         ppm         ASTM D5185m         <1	Nolybdenum	ppm	ASTM D5185m		0		
ASTM D5185m   90   4	Manganese	ppm	ASTM D5185m		0		
Delicition	-	ppm	ASTM D5185m	90	4		
CONTAMINANTS	Calcium	ppm	ASTM D5185m	2	0		
CONTAMINANTS	Phosphorus	ppm	ASTM D5185m		<1		
Solition		ppm	ASTM D5185m		6		
Sodium	CONTAMINANTS	3	method	limit/base	current	history 1	history 2
Potassium         ppm         ASTM D5185m         >20         0             Water         %         ASTM D6304         >0.05         0.010             opm Water         ppm         ASTM D6304         >500         104.7             FLUID DEGRADATION         method         limit/base         current         history 1         history 2           Acid Number (AN)         mg KOH/g         ASTM D8045         0.4         0.41             VISUAL         method         limit/base         current         history 1         history 2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE            Yellow Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE            Yellow Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE	Silicon	ppm	ASTM D5185m	>25	5		
Water         %         ASTM D6304         >0.05         0.010             oppm Water         ppm         ASTM D6304         >500         104.7             FLUID DEGRADATION         method         limit/base         current         history 1         history 2           Acid Number (AN)         mg KOH/g         ASTM D8045         0.4         0.41             VISUAL         method         limit/base         current         history 1         history 2           White Metal         scalar         *Visual         NONE             Vellow Metal         scalar         *Visual         NONE         NONE            Verecipitate         scalar         *Visual         NONE         NONE            Oberis         scalar         *Visual         NONE             Oberis         scalar         *Visual         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML            Appearance         scalar         *Visual         NORML         NORML	Sodium	ppm	ASTM D5185m		<1		
Property   Property	Potassium	ppm	ASTM D5185m	>20	0		
FLUID DEGRADATION method limit/base current history 1 history 2 Acid Number (AN) mg KOH/g ASTM D8045 0.4 0.41  VISUAL method limit/base current history 1 history 2 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  Appearance scalar *Visual NONE NONE  Appearance scalar *Visual NORML NORML  Codor scalar *Visual NORML NORML  Emulsified Water scalar *Visual >0.05 NEG	Vater	%	ASTM D6304	>0.05	0.010		
Acid Number (AN)         mg KOH/g         ASTM D8045         0.4         0.41             VISUAL         method         limit/base         current         history 1         history 2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         MODER             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.05         NEG	ppm Water	ppm	ASTM D6304	>500	104.7		
VISUAL         method         limit/base         current         history 1         history 2           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         MODER             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.05         NEG	FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2
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         MODER             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.05         NEG	Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.41		
Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         MODER             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.05         NEG	VISUAL		method	limit/base	current	history 1	history 2
Precipitate scalar *Visual NONE NONE  Silt scalar *Visual NONE NONE  Debris scalar *Visual NONE MODER  Sand/Dirt scalar *Visual NONE NONE  Appearance scalar *Visual NORML NORML  Dodor scalar *Visual NORML NORML  Emulsified Water scalar *Visual >0.05 NEG	White Metal	scalar	*Visual	NONE	NONE		
Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         MODER             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.05         NEG	ellow Metal		*Visual	NONE	NONE		
Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         MODER             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Ddor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.05         NEG					NONE		
Debris         scalar         *Visual         NONE         MODER             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Ddor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.05         NEG	•						
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.05 NEG							
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.05 NEG							
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.05 NEG							
Emulsified Water scalar *Visual >0.05 NEG	• •						
	Free Water	scalar	*Visual	. 0.00	NEG	on: Service Ma	nager WII RY



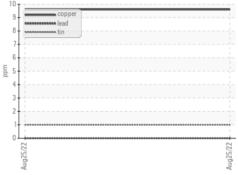
# **OIL ANALYSIS REPORT**



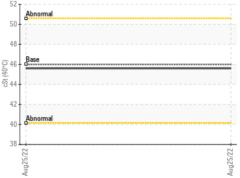


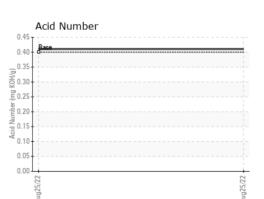


## Non-ferrous Metals



# Viscosity @ 40°C







Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10112894

: KC96765 : 05628373 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Aug 2022 Diagnosed

: 30 Aug 2022 Diagnostician : Angela Borella

**WILKAST** 9100 COMMERCE DR BYRON CENTER, MI USA 49315

Contact: Service Manager

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)

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F: