

## **OIL ANALYSIS REPORT**

#### Area S-460 [8061] Machine Id KAESER 1589 - INTL MARBLE & GRANITE Component

Compressor

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

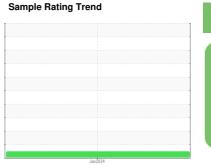
All component wear rates are normal.

#### 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.





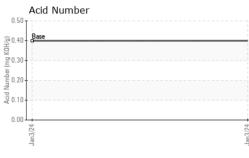
NORMAL

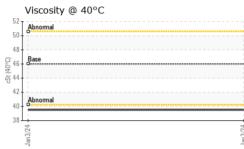
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		UCH06055473		
Sample Date		Client Info		03 Jan 2024		
Machine Age	hrs	Client Info		20822		
Oil Age	hrs	Client Info		3062		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	13		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	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	90	0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	90	21		
Calcium	ppm	ASTM D5185m	2	0		
Phosphorus	ppm	ASTM D5185m		<1		
Zinc	ppm	ASTM D5185m		122		
Sulfur	ppm	ASTM D5185m		17934		
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m		7		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.40		



# **OIL ANALYSIS REPORT**

VISUAL





White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water Free Water FLUID PROPERT Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys	cSt AST	ual NON ual NON ual NON ual NON ual NOR ual NOR ual >0.05 ual >thod limit M D445 46	IE NONE IE NONE IE NONE IE NONE IE NONE IE NONE IML NORMI	nt history1	
Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPERT Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys	scalar *Vis scalar *Vis	ual NON ual NON ual NON ual NOR ual NOR ual >0.05 ual > thod limit	IE NONE IE NONE IE NONE IE NONE IE NOR IIE NORMI 5 NEG 1/base curre 39.5		<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history2</li> <li></li> <li>history2</li> </ul>
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPERT Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys	scalar*Visscalar*Visscalar*Visscalar*Visscalar*Visscalar*Visscalar*Visscalar*Visscalar*ViscStAST	ual NON ual NON ual NOR ual NOR ual >0.05 ual >thod limit M D445 46	IE NONE IE NONE IE NONE RML NORMI 5 NEG 1/base curre 39.5		<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history2</li> <li></li> <li>history2</li> </ul>
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Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPERT Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys	scalar*Visscalar*Visscalar*Visscalar*Visscalar*Visscalar*Visscalar*ViscStAST	ual NON ual NOR ual NOR ual >0.05 ual >thod limit M D445 46	IE NONE RML NORMI 5 NEG t/base curre 39.5	Image: Constraint of the second se	<ul> <li></li> <li></li> <li></li> <li>history2</li> <li></li> <li>history2</li> </ul>
Appearance Odor Emulsified Water Free Water FLUID PROPERT Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys	scalar *Vis scalar *Vis scalar *Vis scalar *Vis scalar *Vis IES me cSt AST	ual NOR ual NOR ual >0.05 ual ethod limit M D445 46	ML NORMI ML NORMI 5 NEG Vbase curre 39.5	L L nt history1 no image	   history2  history2
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FLUID PROPERT Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys	TIES me cSt ASTI	ethod limit M D445 46	t/base curre 39.5	nt history1  nt history1 no image	history2  history2 no image
Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys	cSt AST	M D445 46	39.5	nt history1 no image	history2
SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys				nt history1	history2
Color Bottom GRAPHS Ferrous Alloys	S me	ethod limit	t/base currer	no image	no image
Bottom GRAPHS Ferrous Alloys					
GRAPHS Ferrous Alloys				no image	no image
Ferrous Alloys					
Non-ferrous Metals	s	Jan3/24			
udd 5 0 + + 22 Cuer		Jan3/24			
Viscosity @ 40°C			Acid Nun	nber	
1			₽ <sup>0.50</sup>		
5U • T			0.40 Base		
± 45			E 0.30		
40 - Abnormal			10.20 N 0.10		
35			Poin Acid		
		3/24			100 cm
: WearCheck USA - 5 : UCH06055473 F : 06055473 F : 10821422 F : IND 2	Recieved Diagnosed Diagnostician	ve., Cary, NC : 09 Jan 20 : 10 Jan 20 : Don Baldr	) 27513 <b>De</b> ) 24 ) 24	2201 CU DOWN	
	Non-ferrous Metal	Non-ferrous Metals Non-ferrous Metals Viscosity @ 40°C Viscosity @ 40°C WearCheck USA - 501 Madison A UCH06055473 Recieved 10821422 Diagnosed 10821422 Diagnostician iND 2 contact Customer Service at 1-800-23 re outside of the ISO 17025 scope of	Non-ferrous Metals Non-ferrous Metals Viscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C Uscosity @ 40°C Uscosity @ 40°C 10821422 Diagnosed : 10 Jan 20 10821422 Diagnosed : 10 Jan 20 iND 2 interference at 1-800-237-1369. re outside of the ISO 17025 scope of accreditation	WearCheck USA - 501 Madison Ave., Cary, NC 27513 UCH06055473 UCH06055473 UCH06055473 Diagnosed 10 Jan 2024 Diagnostician Don Baldridge Non-ferrous Metals Metal Mathematical Diagnostician Don Baldridge Diagnostician Don Baldridge Diagnostician Don Baldridge Diagnostician Don Baldridge Diagnostician Don Baldridge Diagnostician Don Baldridge Diagnostician Don Baldridge Diagnostician Don Baldridge Diagnostician Don Baldridge Diagnostician Don Baldridge Diagnostician Diagnostician Don Baldridge Diagnostician Diagnos	Non-ferrous Metals

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

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