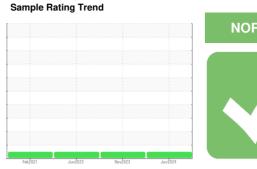


**OIL ANALYSIS REPORT** 

Area **S-460** [9696] **KAESER 7600875 - IMTT** 

Component Compressor





## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the

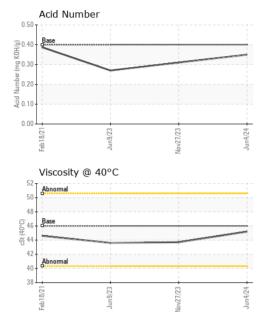
# **Fluid Condition**

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

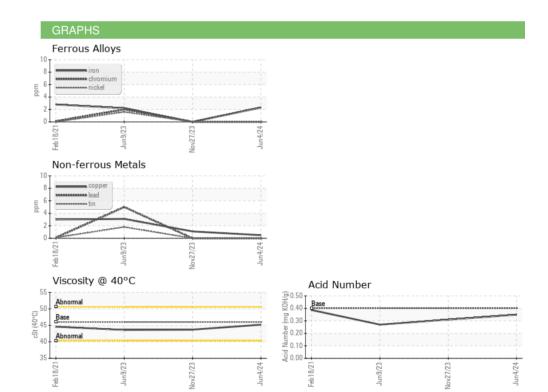
Sample Number							
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         99892         98674         97667           Oil Age         hrs         Client Info         3000         1007         3272           Oil Changed         Client Info         Changed         Changed         Changed         Changed           Sample Status         NORMAL	Sample Number		Client Info		UDI0000320	UCH06025267	UCH05885694
Oil Age         hrs         Client Info         3000         1007         3272           Oil Changed         Client Info         Changed         Changed         Changed         Changed           Sample Status         Info         Changed         Changed         Changed         Changed           CONTAMINATION         method         limit/base         current         history1         history2           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         2         0         2           Chromium         ppm         ASTM D5185m         >10         0         0         2           Nickel         ppm         ASTM D5185m         >3         0         0         2           Silver         ppm         ASTM D5185m         >3         0         0         2           Aluminum         ppm         ASTM D5185m         >10         1         0         4           Lead         ppm         ASTM D5185m         >10         0         0         5           Copper         ppm         ASTM D5185m         >50         <1	Sample Date		Client Info		04 Jun 2024	27 Nov 2023	09 Jun 2023
Colinged   Client Info   Changed   NORMAL   NO	Machine Age	hrs	Client Info		99892	98674	97667
NORMAL   NORMAL   NORMAL   NORMAL   CONTAMINATION   method   limit/base   current   history1   history2	Oil Age	hrs	Client Info		3000	1007	3272
CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.05         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         2         0         2           Chromium         ppm         ASTM D5185m         >10         0         0         2           Nickel         ppm         ASTM D5185m         >3         0         0         2           Silver         ppm         ASTM D5185m         >3         0         0         2           Silver         ppm         ASTM D5185m         >2         0         0         1           Aluminum         ppm         ASTM D5185m         >10         0         0         4           Lead         ppm         ASTM D5185m         >10         0         0         5           Copper         ppm         ASTM D5185m         >10         0         0         2           Vanadium         ppm         ASTM D5185m         0         0         0         1 <td>Oil Changed</td> <td></td> <td>Client Info</td> <td></td> <th>Changed</th> <td>Changed</td> <td>Changed</td>	Oil Changed		Client Info		Changed	Changed	Changed
Water         WC Method         >0.05         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         2         0         2           Chromium         ppm         ASTM D5185m         >10         0         0         2           Nickel         ppm         ASTM D5185m         >3         0         0         2           Titanium         ppm         ASTM D5185m         >3         0         0         2           Silver         ppm         ASTM D5185m         >2         0         0         1           Aluminum         ppm         ASTM D5185m         >10         1         0         4           Lead         ppm         ASTM D5185m         >50         <1	Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         2         0         2           Chromium         ppm         ASTM D5185m         >10         0         0         2           Nickel         ppm         ASTM D5185m         >3         0         0         2           Titanium         ppm         ASTM D5185m         >2         0         0         1           Aluminum         ppm         ASTM D5185m         >10         1         0         4           Lead         ppm         ASTM D5185m         >10         1         0         4           Lead         ppm         ASTM D5185m         >10         0         0         5           Copper         ppm         ASTM D5185m         >10         0         0         2           Antimony         ppm         ASTM D5185m         >10         0         0         2           Vanadium         ppm         ASTM D5185m         0         0         0         1           Cadmium         ppm         ASTM D5185m         0         0         0         0 </th <th>CONTAMINATIO</th> <th>Ν</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	CONTAMINATIO	Ν	method	limit/base	current	history1	history2
Iron	Water		WC Method	>0.05	NEG	NEG	NEG
Chromium         ppm         ASTM D5185m         >10         0         0         2           Nickel         ppm         ASTM D5185m         >3         0         0         2           Titanium         ppm         ASTM D5185m         >3         0         0         2           Silver         ppm         ASTM D5185m         >2         0         0         1           Aluminum         ppm         ASTM D5185m         >10         1         0         4           Lead         ppm         ASTM D5185m         >10         0         0         5           Copper         ppm         ASTM D5185m         >10         0         0         5           Tin         ppm         ASTM D5185m         >10         0         0         2           Antimony         ppm         ASTM D5185m         0         0         0         1           Cadmium         ppm         ASTM D5185m         0         0         0         1           Cadmium         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         1 <td>WEAR METALS</td> <td></td> <td>method</td> <td>limit/base</td> <th>current</th> <td>history1</td> <td>history2</td>	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	2	0	2
Titanium	Chromium	ppm	ASTM D5185m	>10	0	0	2
Silver         ppm         ASTM D5185m         >2         0         0         1           Aluminum         ppm         ASTM D5185m         >10         1         0         4           Lead         ppm         ASTM D5185m         >10         0         0         5           Copper         ppm         ASTM D5185m         >50         <1         1         3           Tin         ppm         ASTM D5185m         >10         0         0         2           Antimony         ppm         ASTM D5185m               Vanadium         ppm         ASTM D5185m         0         0         1         1           Cadmium         ppm         ASTM D5185m         0         0         0         2           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         2           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         1 </td <td>Nickel</td> <td>ppm</td> <td>ASTM D5185m</td> <td>&gt;3</td> <th>0</th> <td>0</td> <td>2</td>	Nickel	ppm	ASTM D5185m	>3	0	0	2
Aluminum         ppm         ASTM D5185m         >10         1         0         4           Lead         ppm         ASTM D5185m         >10         0         0         5           Copper         ppm         ASTM D5185m         >50         <1	Titanium	ppm	ASTM D5185m	>3	0	0	2
Lead         ppm         ASTM D5185m         >10         0         0         5           Copper         ppm         ASTM D5185m         >50         <1         1         3           Tin         ppm         ASTM D5185m         >10         0         0         2           Antimony         ppm         ASTM D5185m         0         0         1           Vanadium         ppm         ASTM D5185m         0         0         1           Cadmium         ppm         ASTM D5185m         0         0         2           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         2           Boron         ppm         ASTM D5185m         90         0         0         11         Mistory2           Boron         ppm         ASTM D5185m         0         0         0         2           Boron         ppm         ASTM D5185m         0         0         0         11           Molybdenum         ppm         ASTM D5185m         <1         <1         <1         <1         <1         <1 <td>Silver</td> <td>ppm</td> <td>ASTM D5185m</td> <td>&gt;2</td> <th>0</th> <td>0</td> <td>1</td>	Silver	ppm	ASTM D5185m	>2	0	0	1
Lead         ppm         ASTM D5185m         >10         0         0         5           Copper         ppm         ASTM D5185m         >50         <1         1         3           Tin         ppm         ASTM D5185m         >10         0         0         2           Antimony         ppm         ASTM D5185m         0         0         1            Vanadium         ppm         ASTM D5185m         0         0         1         0         2           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         2           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         90         0         0         11         0         0         2           Magnesium         ppm         ASTM D5185m         2         0         0         1         0         9           Calcium         pp	Aluminum	ppm	ASTM D5185m	>10	1	0	4
Copper         ppm         ASTM D5185m         >50         <1         1         3           Tin         ppm         ASTM D5185m         >10         0         0         2           Antimony         ppm         ASTM D5185m              Vanadium         ppm         ASTM D5185m         0         0         1           Cadmium         ppm         ASTM D5185m         0         0         2           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         90         0         0         11         1           Molybdenum         ppm         ASTM D5185m         0         0         2         0         11         2         0         0         11         2         0         14         1         2         0         9         0         1         1         2         0         0         1         1         1         2         0         0         1         1         1         0	Lead		ASTM D5185m	>10	0	0	5
Tin	Copper		ASTM D5185m	>50	<1	1	3
Antimony         ppm         ASTM D5185m	Tin		ASTM D5185m	>10	0	0	2
Cadmium         ppm         ASTM D5185m         0         0         2           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         90         0         0         11           Molybdenum         ppm         ASTM D5185m         0         0         2           Manganese         ppm         ASTM D5185m         <1	Antimony		ASTM D5185m				
Cadmium         ppm         ASTM D5185m         0         0         2           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         90         0         0         11           Molybdenum         ppm         ASTM D5185m         0         0         2           Manganese         ppm         ASTM D5185m         <1	Vanadium	ppm	ASTM D5185m		0	0	1
Boron         ppm         ASTM D5185m         0         0         0           Barium         ppm         ASTM D5185m         90         0         0         11           Molybdenum         ppm         ASTM D5185m         0         0         2           Manganese         ppm         ASTM D5185m         <1         <1         2           Magnesium         ppm         ASTM D5185m         90         19         0         9           Calcium         ppm         ASTM D5185m         2         0         0         1           Phosphorus         ppm         ASTM D5185m         58         240         160           Zinc         ppm         ASTM D5185m         16         13         16           Sulfur         ppm         ASTM D5185m         19006         670         750           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         2           Sodium         ppm         ASTM D5185m         >20         3         0         7           FLUID DEGRADATION         method	Cadmium		ASTM D5185m		0	0	2
Barium         ppm         ASTM D5185m         90         0         0         11           Molybdenum         ppm         ASTM D5185m         0         0         2           Manganese         ppm         ASTM D5185m         <1         <1         2           Magnesium         ppm         ASTM D5185m         90         19         0         9           Calcium         ppm         ASTM D5185m         2         0         0         1           Phosphorus         ppm         ASTM D5185m         58         240         160           Zinc         ppm         ASTM D5185m         16         13         16           Sulfur         ppm         ASTM D5185m         19006         670         750           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         2           Sodium         ppm         ASTM D5185m         >20         3         0         7           FLUID DEGRADATION         method         limit/base         current         history1         history2	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0         0         2           Manganese         ppm         ASTM D5185m         <1         <1         2           Magnesium         ppm         ASTM D5185m         90         19         0         9           Calcium         ppm         ASTM D5185m         2         0         0         1           Phosphorus         ppm         ASTM D5185m         58         240         160           Zinc         ppm         ASTM D5185m         16         13         16           Sulfur         ppm         ASTM D5185m         19006         670         750           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         2           Sodium         ppm         ASTM D5185m         >20         3         0         7           FLUID DEGRADATION         method         limit/base         current         history1         history2	Boron	ppm	ASTM D5185m		0	0	0
Manganese         ppm         ASTM D5185m         <1         <1         2           Magnesium         ppm         ASTM D5185m         90         19         0         9           Calcium         ppm         ASTM D5185m         2         0         0         1           Phosphorus         ppm         ASTM D5185m         58         240         160           Zinc         ppm         ASTM D5185m         16         13         16           Sulfur         ppm         ASTM D5185m         19006         670         750           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         2           Sodium         ppm         ASTM D5185m         >20         3         0         7           FLUID DEGRADATION         method         limit/base         current         history1         history2	Barium	ppm	ASTM D5185m	90	0	0	11
Magnesium         ppm         ASTM D5185m         90         19         0         9           Calcium         ppm         ASTM D5185m         2         0         0         1           Phosphorus         ppm         ASTM D5185m         58         240         160           Zinc         ppm         ASTM D5185m         16         13         16           Sulfur         ppm         ASTM D5185m         19006         670         750           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         2           Sodium         ppm         ASTM D5185m         >20         3         0         7           FLUID DEGRADATION         method         limit/base         current         history1         history2	Molybdenum	ppm	ASTM D5185m		0	0	2
Calcium         ppm         ASTM D5185m         2         0         0         1           Phosphorus         ppm         ASTM D5185m         58         240         160           Zinc         ppm         ASTM D5185m         16         13         16           Sulfur         ppm         ASTM D5185m         19006         670         750           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         2           Sodium         ppm         ASTM D5185m         6         <1	Manganese	ppm	ASTM D5185m		<1	<1	2
Phosphorus         ppm         ASTM D5185m         58         240         160           Zinc         ppm         ASTM D5185m         16         13         16           Sulfur         ppm         ASTM D5185m         19006         670         750           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         2           Sodium         ppm         ASTM D5185m         6         <1         3           Potassium         ppm         ASTM D5185m         >20         3         0         7           FLUID DEGRADATION         method         limit/base         current         history1         history2	Magnesium	ppm	ASTM D5185m	90	19	0	9
Zinc         ppm         ASTM D5185m         16         13         16           Sulfur         ppm         ASTM D5185m         19006         670         750           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         2           Sodium         ppm         ASTM D5185m         6         <1         3           Potassium         ppm         ASTM D5185m         >20         3         0         7           FLUID DEGRADATION         method         limit/base         current         history1         history2	Calcium	ppm	ASTM D5185m	2	0	0	1
Sulfur         ppm         ASTM D5185m         19006         670         750           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         2           Sodium         ppm         ASTM D5185m         6         <1	Phosphorus	ppm	ASTM D5185m		58	240	160
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         2           Sodium         ppm         ASTM D5185m         6         <1	Zinc	ppm	ASTM D5185m		16	13	16
Silicon         ppm         ASTM D5185m         >25         0         0         2           Sodium         ppm         ASTM D5185m         6         <1         3           Potassium         ppm         ASTM D5185m         >20         3         0         7           FLUID DEGRADATION         method         limit/base         current         history1         history2	Sulfur	ppm	ASTM D5185m		19006	670	750
Sodium         ppm         ASTM D5185m         6         <1         3           Potassium         ppm         ASTM D5185m         >20         3         0         7           FLUID DEGRADATION         method         limit/base         current         history1         history2	CONTAMINANTS	6	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <b>3</b> 0 7  FLUID DEGRADATION method limit/base current history1 history2	Silicon	ppm	ASTM D5185m	>25	0	0	2
FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		6	<1	3
	Potassium	ppm	ASTM D5185m	>20	3	0	7
Acid Number (AN)         mg KOH/g         ASTM D8045         0.4         0.35         0.31         0.27	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.35	0.31	0.27



# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	45.2	43.7	43.6
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						







Certificate 12367

Laboratory Sample No.

Lab Number : 06214775 Unique Number : 11087639

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : UDI0000320

Received **Tested** Diagnosed

: 19 Jun 2024 : 20 Jun 2024

: 20 Jun 2024 - Wes Davis

**DELTA INDUSTRIES - DOWNERS GROVE** 

2201 CURTISS STREET DOWNERS GROVE, IL US 60515

Contact: MICHAEL FERRIS

To discuss this sample report, contact Customer Service at 1-800-237-1369.

**Bottom** 

\* - 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: (630)960-3931