

#### WEAR NORMAL CONTAMINATION NORMAL **FLUID CONDITION SEVERE**

# **ANDEROL 46 SUPREME KAESER 1016 - PHOENIX CONSTRUCTION**

## Component Compressor

### **ANDEROL 46 SUPREME (--- GAL)**

### RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

#### **WEAR**

All component wear rates are normal.

#### CONTAMINATION

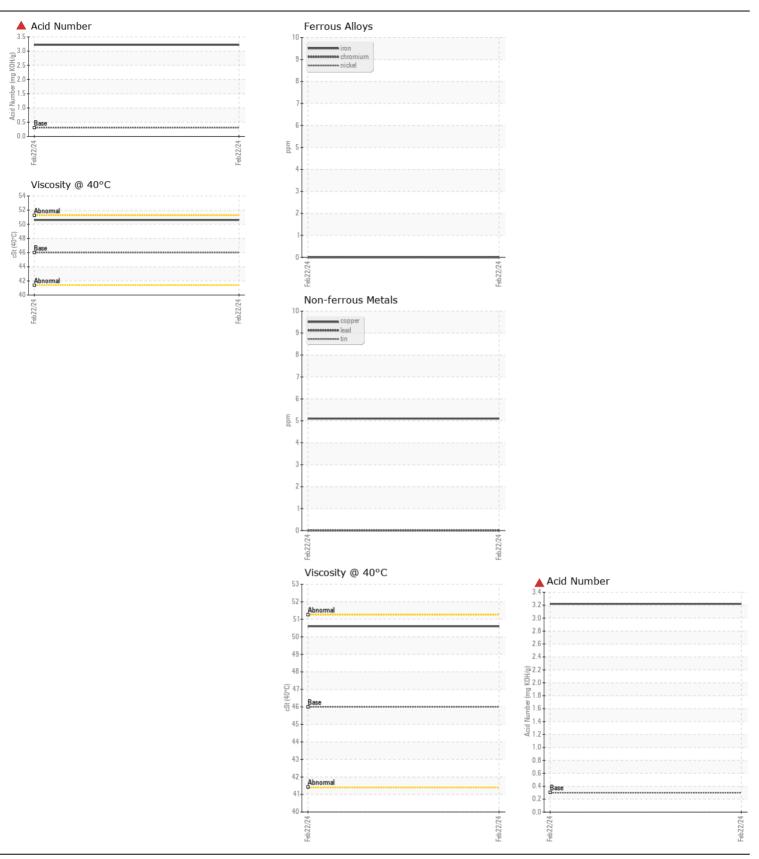
There is no indication of any contamination in the oil.

#### **FLUID CONDITION**

The AN level is above the recommended limit. TAN level indicates possible presence of varnish. The oil is no longer serviceable.

TestUOMMethodLimit/AnCurrentHistory1History1History2Sample NumberClient Info22 Feb 2024Machine AgehrsClient Info0Machine AgehrsClient Info0Filter AgehrsClient Info0Coli ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusStM D5185>500IronppmASTM D5185>30NickelppmASTM D5185>30NickelppmASTM D5185>30AluminumppmASTM D5185>100AluminumppmASTM D5185>100VanadiumppmASTM D5185>100VanadiumppmASTM D5185>100Vellow Metalscalar*VisualNONENONESiliconppmASTM D5185>200SiliconppmASTM D5185>20NONESiliconppmASTM D5185>20NONEPotassiu							
Sample DateClient Info22 Feb 2024Machine AgehrsClient Info50935Filter AgehrsClient Info0Filter AgehrsClient InfoNot ChangdGli AgaehrsClient InfoNot ChangdFilter ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusSTM D5185>500NickelppmASTM D5185>100NickelppmASTM D5185>100AluminumppmASTM D5185>100AduminumppmASTM D5185>100VanadiumppmASTM D5185>100VanadiumppmASTM D5185>100SiliconppmASTM D5185>200SiliconppmASTM D5185>20NONESiliconppmASTM D5185>20NONESiliconppmASTM D5185>20NONESiliconppmASTM D5185>20NONESiliconppmASTM D5185>20NONESilicon<	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age         hrs         Client Info         50935             Oil Age         hrs         Client Info         0             Filter Age         hrs         Client Info         Not Changd             GOI Changed         Client Info         Not Changd              Sample Status         SEVERE               Iron         ppm         ASTM D5185m         >50         0             Chromium         ppm         ASTM D5185m         >30         0             Nickel         ppm         ASTM D5185m         >3         0             Auminum         ppm         ASTM D5185m         >2         0             Auminum         ppm         ASTM D5185m         >10         0             Qanadium         ppm         ASTM D5185m         >50         5             Yellow Metal         scalar         *Visual         NONE         NONE          -	Sample Number		Client Info		UAC06101763		
Oil Age         hrs         Client Info         0             Filter Age         hrs         Client Info         Not Changd             Gil Changed         Client Info         Not Changd             Filter Changed         Client Info         Not Changd             Sample Status         SEVERE             Iron         ppm         ASTM D5185m         >50         0             Iron         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         >3         0             Silver         ppm         ASTM D5185m         >10         0             Qapper         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Yanadium         ppm         ASTM D5185m         >20         0             Yanadium         ppm         ASTM D51	Sample Date		Client Info		22 Feb 2024		
Filter Age         hrs         Client Info         0             Oil Changed         Client Info         Not Changd             Filter Changed         Client Info         Not Changd             Sample Status         SEVERE             Iron         ppm         ASTM D5185m         >50         0             Chromium         ppm         ASTM D5185m         >3         0             Nickel         ppm         ASTM D5185m         >3         0             Aluminum         ppm         ASTM D5185m         >10         0             Qopper         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >20              Vanadium         ppm         ASTM D5185m         >20	Machine Age	hrs	Client Info		50935		
Oil Changed         Client Info         Not Changd            Filter Changed         Client Info         Not Changd            Sample Status         SEVERE            Iron         ppm         ASTM D5185m         >50         0            Chromium         ppm         ASTM D5185m         >30         0            Nickel         ppm         ASTM D5185m         >31         0            Nickel         ppm         ASTM D5185m         >31         0            Silver         ppm         ASTM D5185m         >10         0            Aluminum         ppm         ASTM D5185m         >10         0            Qanadium         ppm         ASTM D5185m         >10         0            Yellow Metal         scalar         *Visual         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         0            Silicon         ppm         ASTM D5185m         >20         0 </th <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th></th> <th></th>	Oil Age	hrs	Client Info		0		
Filter Changed         Client Info         Not Changed             Sample Status         SEVERE             Iron         ppm         ASTM D5185m         >50         0            Nickel         ppm         ASTM D5185m         >30         0            Nickel         ppm         ASTM D5185m         >3         0            Silver         ppm         ASTM D5185m         >3         0            Aluminum         ppm         ASTM D5185m         >10         0            Aluminum         ppm         ASTM D5185m         >10         0            Lead         ppm         ASTM D5185m         >10         0            Vanadium         ppm         ASTM D5185m         >10         0            Yellow Metal         scalar         'Visual         NONE             Yellow Metal         scalar         'Visual         NONE             Silicon         ppm         ASTM D5185m         >20         0            Sodium </th <th>Filter Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th></th> <th></th>	Filter Age	hrs	Client Info		0		
Sample Status         SEVERE             Iron         ppm         ASTM D5185m         >50         0            Chromium         ppm         ASTM D5185m         >10         0            Nickel         ppm         ASTM D5185m         >3         0             Nickel         ppm         ASTM D5185m         >3         0             Silver         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >10         0             Lead         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadum         ppm         ASTM D5185m         >10         0             Vanadum         ppm         ASTM D5185m         >20         0             Vanadum         ppm         ASTM D5185m         >20         0	Oil Changed		Client Info		Not Changd		
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Impor         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         >3         0             Titanium         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >10         0             Lead         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >20         0             Yellow Metal         scalar         *Visual         NONE              Silicon         ppm         ASTM D5185m	Sample Status				SEVERE		
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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         >10         0             Vanadium         ppm         ASTM D5185m         >20         0             Yellow Metal         scalar         *Visual         NONE              Silicon         ppm         ASTM D5185m         >20         0             Debris         scalar         *Vis					-		
Silver         ppm         ASTM D5185m         >2         0            Aluminum         ppm         ASTM D5185m         >10         0            Lead         ppm         ASTM D5185m         >10         0            Copper         ppm         ASTM D5185m         >50         5            Tin         ppm         ASTM D5185m         >10         0            Vanadium         ppm         ASTM D5185m         >10         0            Vanadium         ppm         ASTM D5185m         >10         0            Vanadium         ppm         ASTM D5185m         >20         NONE            Yellow Metal         scalar         *Visual         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         0            Water         WC Method         >0.05         NEG            Debris         scalar         *Visual         NORE             Appearance         scalar         *Visual         NORML         NORML					-		
Aluminum         ppm         ASTM D5185m         >10         0             Lead         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         >10         0             Tin         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m<>25         <1              Water         WC Method         >0.05         NEG              Silit         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORE					-		
Lead         ppm         ASTM D5185m         >10         0            Copper         ppm         ASTM D5185m         >50         5             Tin         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >20         0             Water         WC Method         >0.05         NEG             Silit         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NORE             Appearance         scalar         *Visual         NORML         NORML             Godor         scalar         *Visual         NORML <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th>				-			
Copper         ppm         ASTM D5185m         >50         5             Tin         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >20         0             Vater         WC Method         >0.05         NEG              Silit         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORE              Appearance         scalar         *Visual         NORM         NORML             Sodium         ppm         ASTM D5185m         A             Boron         ppm         ASTM D					-		
TinppmASTM D5185m>100VanadiumppmASTM D5185m00White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>200PotassiumppmASTM D5185m>200WaterWC Method>0.05NEGSiliscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNOREAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185mQ0BoronppmASTM D5185mI0ManganeseppmASTM D5185mI0ManganeseppmASTM D5185mS0125PhosphorusppmASTM D5185m850125ManganeseppmASTM D5185m850125PhosphorusppmASTM D5185mS0125Phosphoru							
Vanadium         ppm         ASTM D5185m         0            White Metal         scalar         *Visual         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE            Silicon         ppm         ASTM D5185m<>25         <1             Potassium         ppm         ASTM D5185m<>20         0             Water         WC Method         >0.05         NEG             Silt         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORM         NORML             Godor         scalar         *Visual         NORM         NORML             Appearance         scalar         *Visual         NORM         NORML             Godor         scalar         *Visual         NORM         More					-		
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SiliconppmASTM D5185m>25<1		scalar	*Visual				
Potassium         ppm         ASTM D5185m         >20         0            Water         WC Method         >0.05         NEG             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NORE             Appearance         scalar         *Visual         NOR         NORML             Odor         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Sodium         ppm         ASTM D5185m         4             Boron         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0 </th <th>Yellow Metal</th> <th>scalar</th> <th>*Visual</th> <th>NONE</th> <th>NONE</th> <th></th> <th></th>	Yellow Metal	scalar	*Visual	NONE	NONE		
PotassiumppmASTM D5185m>200WaterWC Method>0.05NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185mA4BoronppmASTM D5185m0MalganeseppmASTM D5185m0MagnesiumppmASTM D5185m0PhosphorusppmASTM D5185mSol125ZincppmASTM D5185m118117SulfurppASTM D5185m138122	Silicon	ppm	ASTM D5185m	>25	<1		
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Sodium         ppm         ASTM D5185m         4            Boron         ppm         ASTM D5185m         0            Barium         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         0            Zinc         ppm         ASTM D5185m         850         125            Sulfur         ppm         ASTM D5185m         118         117            Acid Number (AN)         mg KOHg         ASTM D5185m         0.3         3.222	Odor	scalar	*Visual	NORML	NORML		
Boron         ppm         ASTM D5185m         O            Barium         ppm         ASTM D5185m         O            Molybdenum         ppm         ASTM D5185m         O            Manganese         ppm         ASTM D5185m         O            Magnesium         ppm         ASTM D5185m         O            Calcium         ppm         ASTM D5185m         O            Phosphorus         ppm         ASTM D5185m         O            Zinc         ppm         ASTM D5185m         125            Sulfur         ppm         ASTM D5185m         118         117            Acid Number (AN)         mg KOHg         ASTM D5185m         0.3         3.222	Emulsified Water	scalar	*Visual	>0.05	NEG		
Boron         ppm         ASTM D5185m         O            Barium         ppm         ASTM D5185m         O            Molybdenum         ppm         ASTM D5185m         O            Manganese         ppm         ASTM D5185m         O            Magnesium         ppm         ASTM D5185m         O            Calcium         ppm         ASTM D5185m         O            Phosphorus         ppm         ASTM D5185m         O            Zinc         ppm         ASTM D5185m         125            Sulfur         ppm         ASTM D5185m         118         117            Acid Number (AN)         mg KOHg         ASTM D5185m         0.3         3.222							
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Molybdenum         ppm         ASTM D5185m         O            Manganese         ppm         ASTM D5185m         O            Magnesium         ppm         ASTM D5185m         O            Magnesium         ppm         ASTM D5185m         O            Calcium         ppm         ASTM D5185m         O            Phosphorus         ppm         ASTM D5185m         850         125            Zinc         ppm         ASTM D5185m         118         117            Sulfur         ppm         ASTM D5185m         0.3         3.222		ppm					
Manganese         ppm         ASTM D5185m         0            Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         850         125             Zinc         ppm         ASTM D5185m         118         117             Sulfur         ppm         ASTM D5185m         0.3 <b>A</b> 3.22							
Magnesium         ppm         ASTM D5185m         0            Calcium         ppm         ASTM D5185m         0            Phosphorus         ppm         ASTM D5185m         850         125            Zinc         ppm         ASTM D5185m         4             Sulfur         ppm         ASTM D5185m         118         117            Acid Number (AN)         mg KOH/g         ASTM D8045         0.3         A 3.22		ppm					
Calcium         ppm         ASTM D5185m         0            Phosphorus         ppm         ASTM D5185m         850         125            Zinc         ppm         ASTM D5185m         4             Sulfur         ppm         ASTM D5185m         118         117            Acid Number (AN)         mg KOH/g         ASTM D8045         0.3         A 3.22							
Phosphorus         ppm         ASTM D5185m         850         125             Zinc         ppm         ASTM D5185m         4             Sulfur         ppm         ASTM D5185m         118         117             Acid Number (AN)         mg KOH/g         ASTM D8045         0.3 <b>A</b> 3.22		ppm					
Zinc         ppm         ASTM D5185m         4             Sulfur         ppm         ASTM D5185m         118         117             Acid Number (AN)         mg KOH/g         ASTM D8045         0.3         A 3.22							
Sulfur         ppm         ASTM D5185m         118         117             Acid Number (AN)         mg KOH/g         ASTM D8045         0.3 <b>A 3.22</b>		ppm		850			
Acid Number (AN) mg KOH/g ASTM D8045 0.3 <b>A 3.22</b>							
Visc @ 40°C cSt ASTM D445 46 50.6							
	Visc @ 40°C	cSt	ASTM D445	46	50.6		

Contact/Location: BILL RIMER - UCATLSAL





Contact/Location: BILL RIMER - UCATLSAL