

### **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

Machine Id

# NK 112613 (S/N SC329449)

Component Rotary Compressor Fluid

HB-150-SCO (--- GAL)

### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

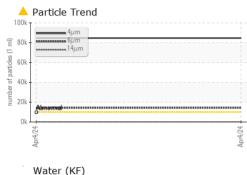
#### Fluid Condition

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

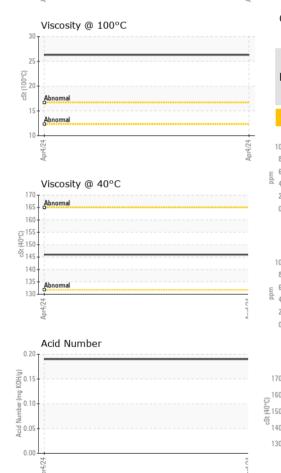
Sample NumberClient InfoD99004021Sample DateClient Info04 Apr 2024Machine AgehrsClient Info0Oil AgehrsClient InfoN/AOil ChangedClient InfoN/ASample StatusClient InfoN/AWEAR METALSmethodImit/baseABNOMEALWEAR METALSmethodImit/base0NickelppmASTM 05158>705ChromiumppmASTM 05158>706NickelppmASTM 05158>32SilverppmASTM 05158>3-1AluminumppmASTM 05158>3-1CopperppmASTM 05158>3-1MandanppmASTM 05158>3-1NadaumppmASTM 05158-2-1MandaneseppmASTM 05158-2-1MaganeseppmASTM 05158-2-1MaganeseppmASTM 05158-2-1MaganeseppmASTM 05158-2-1MaganeseppmASTM 0	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2		
Machine AgehrsClient Info0Oil ChangedClient InfoN/ASample StatusIImil/basecurrenthistory1history2IronppmASTM D518m>100NickelppmASTM D518m5100NickelppmASTM D518m0SilverppmASTM D518m0SilverppmASTM D518m540LeadppmASTM D518m>40CopperppmASTM D518m>40VanadiumppmASTM D518m>3<1ADDITIVESmethodImil/basecurrenthistory1history2BaronppmASTM D518m0ADDITIVESmethodImil/basecurrenthistory1MagnessumppmASTM D518m0MagnessumppmASTM D518m0MolybdenumppmASTM D518m0MagnessumppmASTM D518m37MagnessumppmASTM D518m0MolybdenumppmASTM D518m235MagnessumppmASTM D518m237	Sample Number		Client Info		TO90004021				
Oil Age         hrs         Client Info         N/A             Sample Status         I         Image         Client Info         N/A             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >70         5             Nickel         ppm         ASTM D5185m         0              Nickel         ppm         ASTM D5185m         0              Aluminum         ppm         ASTM D5185m         0              Aluminum         ppm         ASTM D5185m         >3         2              Additum         ppm         ASTM D5185m         >3         <1              Adminum         ppm         ASTM D5185m         >3         <1              Adminum         ppm         ASTM D5185m         0	Sample Date		Client Info		04 Apr 2024				
Oil Changed Sample Status         Client Info         N/A             WEAR METALS         method         limil/base         current         history1         history2           WEAR METALS         method         limil/base         current         history1         history2           Iron         ppm         ASTM D5185m         >70         5             Chromium         ppm         ASTM D5185m         >70         5             Nickel         ppm         ASTM D5185m         >70         5             Aluminum         ppm         ASTM D5185m         >30         2             Aluminum         ppm         ASTM D5185m         >30         2             Lead         ppm         ASTM D5185m         >20         <1	Machine Age	hrs	Client Info		0				
Sample Status         method         imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >70         5             Nickel         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         >10         0             Silver         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >30         2             Aluminum         ppm         ASTM D5185m         >20         <1             Copper         ppm         ASTM D5185m         >20         <1             Cadmium         ppm         ASTM D5185m         >20         <1             ASTM D5185m         >20         <1               Cadmium         ppm         ASTM D5185m         >20              Boron         ppm         ASTM D5185m         0	Oil Age	hrs	Client Info		0				
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Silver       ppm       ASTM D5185m       0           Aluminum       ppm       ASTM D5185m       >3       2           Lead       ppm       ASTM D5185m       >4       0           Copper       ppm       ASTM D5185m       >20       <1	Titanium		ASTM D5185m		0				
Aluminum       ppm       ASTM D5185m       >3       2           Lead       ppm       ASTM D5185m       >4       0           Copper       ppm       ASTM D5185m       >20       <1           Tin       ppm       ASTM D5185m       >3       <1           Cadmium       ppm       ASTM D5185m       >3       <1           Cadmium       ppm       ASTM D5185m       0            ADDITIVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185m       0            Maganese       ppm       ASTM D5185m       0            Maganese       ppm       ASTM D5185m       37            Calcium       ppm       ASTM D5185m       20            Sulfur       ppm       ASTM D5185m       >20       2           Sulfur       ppm       ASTM D5185m       >20 <td>Silver</td> <td></td> <td>ASTM D5185m</td> <td></td> <th></th> <td></td> <td></td>	Silver		ASTM D5185m						
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Copper         ppm         ASTM D5185m         >20         <1	Lead				0				
Tin         ppm         ASTM D5185m         >3         <1				>20					
Vanadium         ppm         ASTM D5185m         <1									
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         < <th>&lt;1</th> Calcium         ppm         ASTM D5185m         < <th>37             Calcium         ppm         ASTM D5185m         37             Sulfur         ppm         ASTM D5185m         235             Sulfur         ppm         ASTM D5185m         235         0             Sulfur         ppm         ASTM D5185m         &gt;20         2             Sodium         ppm         ASTM D5185m         &gt;20</th> <td>Vanadium</td> <td></td> <td>ASTM D5185m</td> <td></td> <th>&lt;1</th> <td></td> <td></td>	<1	37             Calcium         ppm         ASTM D5185m         37             Sulfur         ppm         ASTM D5185m         235             Sulfur         ppm         ASTM D5185m         235         0             Sulfur         ppm         ASTM D5185m         >20         2             Sodium         ppm         ASTM D5185m         >20	Vanadium		ASTM D5185m		<1		
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Sodium         ppm         ASTM D5185m         4            Potassium         ppm         ASTM D5185m         >20         2             Water         %         ASTM D6304         >0.6         0.332             ppm Water         ppm         ASTM D6304         >0.6         0.332             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         ▲ 84683             Particles >6µm         ASTM D7647         >2500         ▲ 14229             Particles >14µm         ASTM D7647         >320         154             Particles >21µm         ASTM D7647         >80         18             Particles >38µm         ASTM D7647         >20         0             Particles >71µm         ASTM D7647         >4         0             Oil Cleanliness         ISO 4406 (c)         >20/18/15         24/21/14	CONTAMINANTS		method	limit/base	current	history1	history2		
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Water       %       ASTM D6304       >0.6       0.332           ppm Water       ppm       ASTM D6304       >0.6       3329           FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >10000       ▲ 84683           Particles >6µm       ASTM D7647       >2500       ▲ 14229           Particles >6µm       ASTM D7647       >320       154           Particles >1µm       ASTM D7647       >80       18           Particles >38µm       ASTM D7647       >20       0           Particles >71µm       ASTM D7647       >4       0           Oil Cleanliness       ISO 4406 (c)       >20/18/15       24/21/14           FLUID DEGRADATION       method       limit/base       current       history1       history2	Sodium	ppm	ASTM D5185m		4				
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Particles >21μm         ASTM D7647         >80         18             Particles >38μm         ASTM D7647         >20         0             Particles >38μm         ASTM D7647         >20         0             Particles >71μm         ASTM D7647         >4         0             Oil Cleanliness         ISO 4406 (c)         >20/18/15         24/21/14             FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >6µm		ASTM D7647	>2500	<u> </u>				
Particles >38μm         ASTM D7647         >20         0             Particles >71μm         ASTM D7647         >4         0             Oil Cleanliness         ISO 4406 (c)         >20/18/15 <b>24/21/14</b> FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >14µm		ASTM D7647	>320	154				
Particles >71μm         ASTM D7647         >4         0             Oil Cleanliness         ISO 4406 (c)         >20/18/15 <b>24/21/14</b> FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >21µm		ASTM D7647	>80	18				
Oil Cleanliness       ISO 4406 (c) >20/18/15   24/21/14           FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >38µm		ASTM D7647	>20	0				
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>4	0				
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>4</b> 24/21/14				
Acid Number (AN) mg KOH/g ASTM D8045 0.19	FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.19				

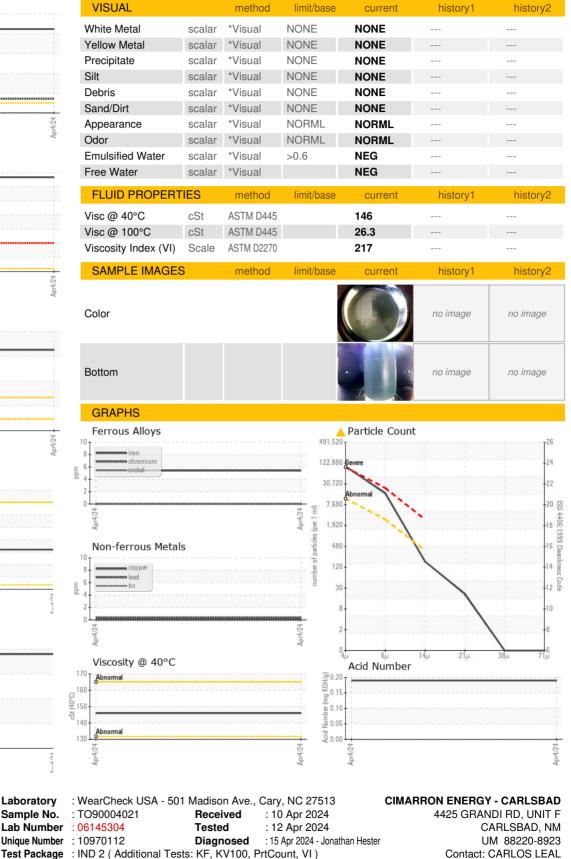


## **OIL ANALYSIS REPORT**









- Certificate 12367 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)

Laboratory

Sample No.

Lab Number

Contact/Location: CARLOS LEAL - CIMCAR

T:

F:

cleal@cimarron.com