

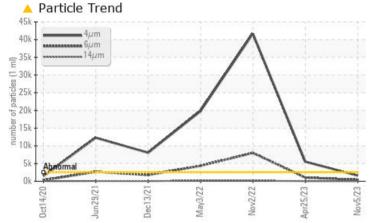
### **PROBLEM SUMMARY**

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### Area Marcus Hook/Cryogenic/Compressor Machine Id CRYOGENIC COMPRESSOR 50-C-101E Component

Rotary Compressor Fluid ISO 100 (220 GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Apr25,				
PROBLEMATIC TEST F	RESULTS			
imple Status		ATTENTION	ABNORMAL	ABNORMAL
urticles Sum	ASTM D7647 \320	A 119	A 1027	A 8026

Sample Status			ATTENTION	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>320	<u> </u>	<b>1</b> 027	▲ 8026
Oil Cleanliness	ISO 4406 (c)	>18/15/13	<b>18/16/12</b>	<b>2</b> 0/17/12	<b>2</b> 3/20/15

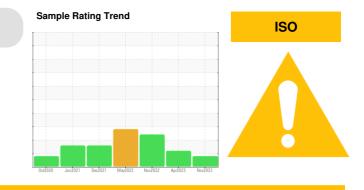
Customer Id: ETCMHOOK Sample No.: TO60001822 Lab Number: 05999966 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

### **HISTORICAL DIAGNOSIS**

### 25 Apr 2023 Diag: Don Baldridge



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### 02 Nov 2022 Diag: Jonathan Hester

03 May 2022 Diag: Don Baldridge



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.





We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.











### **OIL ANALYSIS REPORT**

# Marcus Hook/Cryogenic/Compressor CRYOGENIC COMPRESSOR 50-C-101E

Rotary Compressor Fluid ISO 100 (220 GAL)

### DIAGNOSIS

### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

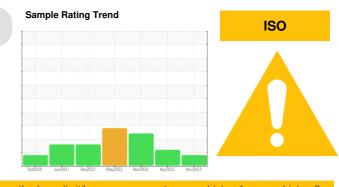
All component wear rates are normal.

### Contamination

There is a moderate 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 Date     Client Info     05 Nov 2023     25 Apr 2023     02 Nov 2022       Machine Age     hrs     Client Info     0     0     0       Oil Age     hrs     Client Info     0     0     0     0       Sample Status     Client Info     N/A     N/A     N/A     N/A       WEAR METALS     method     limitbase     current     history1     history2       Iron     ppm     ASTM D5155n     >70     1     3     5       Chromium     ppm     ASTM D5155n     0     0     0     0       Nickel     ppm     ASTM D5155n     0     0     0     0     0       Lead     ppm     ASTM D5155n     20     0     0     0     0       Vanadium     ppm     ASTM D5155n     20     0     0     0     0       Astm D5155n     20     0     0     0     0     0       Vanadium     ppm     ASTM D5155n     0     0     0	SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 0   Oil Age hrs Client Info 0 0 0   Oil Changed Client Info N/A N/A N/A N/A   Sample Status I Imit/base ATTENTION ABNORMAL ABNORMAL   WEAR METALS method Imit/base current history1 history2   Iron ppm ASTMD51655 >10 0 0 0   Nickel ppm ASTMD51655 >40 0 0 0   Sliver ppm ASTMD51655 >4 0 0 0   Capper ppm ASTMD51655 >3 0 0 0 0   Vanadium ppm ASTMD51655 >3 0 0 0 0   Cadmium ppm ASTMD51655 >3 0 0 0 0   Manganese ppm ASTMD51655 >4 0 0 0   Roron ppm ASTMD51655 <0 0 0 0   Manganese ppm ASTMD51655 <0 <1 0 0   Roron ppm ASTMD51655 <0<	Sample Number		Client Info		TO60001822	TO90003048	TO90002745
Oil Age     hrs     Client Info     0     0     0       Oil Changed     Client Info     N/A     N/A     N/A     N/A       Sample Status     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >70     1     3     5       Chromium     ppm     ASTM D5185m     >10     0     0     0       Nickel     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     >20     0     0     0       Capper     ppm     ASTM D5185m     >20     0     0     0       Cadmium     ppm     ASTM D5185m     3     0     0     0     0       ASTM D5185m     0     0     0     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0	Sample Date		Client Info		05 Nov 2023	25 Apr 2023	02 Nov 2022
Oli Changed     Client Info     N/A     N/A     N/A     ABNORMAL       Sample Status     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >70     1     3     5       Chromium     ppm     ASTM D5185m     >70     0     0     0       Nickel     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     0     0     0     0       Lead     ppm     ASTM D5185m     >3     0     0     0       Cadmium     ppm     ASTM D5185m     >20     0     0     0       Cadmium     ppm     ASTM D5185m     >20     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Baron     ppm     ASTM D5185m     0     <1     0     0 <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Machine Age	hrs	Client Info		0	0	0
Sample Status     method     Imit/base     current     ABNORMAL     ABNORMAL       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >70     1     3     5       Chromium     ppm     ASTM D5185m     >10     0     0     0       Nickel     ppm     ASTM D5185m     >10     0     0     0       Itanium     ppm     ASTM D5185m     >3     0     0     0       Auminum     ppm     ASTM D5185m     >4     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Cadmium     ppm     ASTM D5185m     >3     0     0     0       Adminum     ppm     ASTM D5185m     >3     0     0     0       Adminum     ppm     ASTM D5185m     0     0     0     0       Adminum     ppm     ASTM D5185m     0     0     0     <	Oil Age	hrs	Client Info		0	0	0
WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >70     1     3     5       Chromium     ppm     ASTM D5185m     0     0     0       Nickel     ppm     ASTM D5185m     0     0     0       Silver     ppm     ASTM D5185m     0     0     0       Aluminum     ppm     ASTM D5185m     >3     0     0     0       Lead     ppm     ASTM D5185m     >4     0     0     0       Vanadium     ppm     ASTM D5185m     >3     0     0     0       Vanadium     ppm     ASTM D5185m     >20     0     0     0       ASTM D5185m     S0     0     0     0     0     0       ASTM D5185m     0     0     0     0     0     0       Managanese     ppm     ASTM D5185m     0     0     1     0       Sulfur     ppm	Oil Changed		Client Info		N/A	N/A	N/A
Iron     ppm     ASTM D5185m     >70     1     3     5       Chromium     ppm     ASTM D5185m     >10     0     0     0       Nickel     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     0     0     0     0       Auminum     ppm     ASTM D5185m     >3     0     0     0       Auminum     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Tin     ppm     ASTM D5185m     >20     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Barium     ppm     ASTM D5185m     0     0     0     0       Magaese     ppm     ASTM D5185m     0     0     0     1       Magaese     ppm     ASTM D5185m     0     1     0     0 <th>Sample Status</th> <th></th> <th></th> <th></th> <th>ATTENTION</th> <th>ABNORMAL</th> <th>ABNORMAL</th>	Sample Status				ATTENTION	ABNORMAL	ABNORMAL
Chromium     ppm     ASTM D5185m     >10     0     0     0       Nickel     ppm     ASTM D5185m     0     0     0       Silver     ppm     ASTM D5185m     0     0     0       Silver     ppm     ASTM D5185m     >3     0     0     -<1       Lead     ppm     ASTM D5185m     >3     0     0     0       Copper     ppm     ASTM D5185m     >3     0     0     0       Vanadium     ppm     ASTM D5185m     >3     0     0     0       Vanadium     ppm     ASTM D5185m     >3     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     ASTM D5185m     <1     0     0     0       Sulfur	WEAR METALS		method	limit/base	current	history1	history2
Chromium     ppm     ASTM D5185m     >10     0     0     0       Nickel     ppm     ASTM D5185m     0     0     0       Silver     ppm     ASTM D5185m     0     0     0       Aluminum     ppm     ASTM D5185m     >3     0     0     -11       Lead     ppm     ASTM D5185m     >3     0     0     0       Kanadium     ppm     ASTM D5185m     >3     0     0     0       Vanadium     ppm     ASTM D5185m     >3     0     0     0       Vanadium     ppm     ASTM D5185m     20     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Boron     ppm     ASTM D5185m     0     <1     0     0       Galcium     ppm     ASTM D5185m     0     <1     0     0       Contanin </th <th>Iron</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;70</th> <th>1</th> <th>3</th> <th>5</th>	Iron	ppm	ASTM D5185m	>70	1	3	5
Nickel     ppm     ASTM D5185m     0     0     0       Titanium     ppm     ASTM D5185m     0     0     0       Silver     ppm     ASTM D5185m     >3     0     0     0       Aluminum     ppm     ASTM D5185m     >3     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >3     0     0     0       Cadmium     ppm     ASTM D5185m     >3     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Barium     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     ASTM D5185m     <1     0     0     0       Sulfur     ppm     ASTM D5185m     <1     0     0     0       Sulfur	Chromium		ASTM D5185m	>10	0	0	0
Titanium     ppm     ASTM D5185m     0     0     0       Silver     ppm     ASTM D5185m     >3     0     0     0       Aluminum     ppm     ASTM D5185m     >3     0     0     0       Lead     ppm     ASTM D5185m     >3     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Tin     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >3     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0       Magnaese     ppm     ASTM D5185m     0     0     0     1       Magnaese     ppm     ASTM D5185m     0     0     1     0       Sulfur     ppm     ASTM D5185m     <1     0     0     1       S	Nickel		ASTM D5185m		0	0	0
Silver     ppm     ASTM D5185m     0     0     0       Aluminum     ppm     ASTM D5185m     >3     0     0     <1       Lead     ppm     ASTM D5185m     >4     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Tin     ppm     ASTM D5185m     >20     0     0     0       Vanadium     ppm     ASTM D5185m     20     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     1     0       Calcium     ppm     ASTM D5185m     <1     0     0     1       Sulfur     ppm     ASTM D5185m     <1     0     1     0	Titanium		ASTM D5185m		0	0	0
Aluminum     ppm     ASTM D5185m     >3     0     0     <1	Silver				0	0	0
Lead     ppm     ASTM D5185m     >4     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Tin     ppm     ASTM D5185m     >3     0     0     0       Vanadium     ppm     ASTM D5185m     >3     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Maganese     ppm     ASTM D5185m     0     0     1     0       Maganese     ppm     ASTM D5185m     0     1     0     1       Sulfur     ppm     ASTM D5185m     <1     0     1     0       Sulfur     ppm     ASTM D5185m     <2     2     4     0       Sulfur     ppm     ASTM D5185m     <2     2     4     0	Aluminum			>3			<1
Copper     ppm     ASTM D5185m     >20     0     0     0       Tin     ppm     ASTM D5185m     >3     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     ASTM D5185m     0     1     0     0       Sulfur     ppm     ASTM D5185m     <1     0     0     1       Sulfur     ppm     ASTM D5185m     <1     0     0     1       Sulfur     ppm     ASTM D5185m     <2     2     4     0 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Tin     ppm     ASTM D5185m     >3     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Magnese     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     <1     0     0     0       Calcium     ppm     ASTM D5185m     <1     0     1     0       Phosphorus     ppm     ASTM D5185m     <1     0     1     0       Sulfur     ppm     ASTM D5185m     <1     0     0     <1     0       Sulfur     ppm     ASTM D5185m     <2     2     4     0     0     <1     0       Sulfur     ppm     ASTM D5185m							
Vanadium     ppm     ASTM D5185m     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Barium     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0     0       Magnese     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     ASTM D5185m     0     1     0     0       Calcium     ppm     ASTM D5185m     <1     0     19     0       Zinc     ppm     ASTM D5185m     <1     0     0     <1     0       Sulfur     ppm     ASTM D5185m     <2     2     4     0     0     <1     0       Sulfur     ppm     ASTM D5185m     >20     0							
Cadmium     ppm     ASTM D5185m     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Barium     ppm     ASTM D5185m     0     0     0     0       Madganese     ppm     ASTM D5185m     0     0     0     0       Magnese     ppm     ASTM D5185m     0     -1     0     -1       Magnesium     ppm     ASTM D5185m     0     -1     0     0       Calcium     ppm     ASTM D5185m     <1	Vanadium						
Boron     ppm     ASTM D5185m     0     0     0       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0     0       Manganese     ppm     ASTM D5185m     0     <1							
Barium     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0     <1       Magnesium     ppm     ASTM D5185m     0     <1     0     <1       Magnesium     ppm     ASTM D5185m     0     <1     0     0       Calcium     ppm     ASTM D5185m     <1     0     0     19       Zinc     ppm     ASTM D5185m     <1     0     19     0       Sulfur     ppm     ASTM D5185m     <1     0     0     0       Sulfur     ppm     ASTM D5185m     <4     0     0     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >45     2     2     4       Sodium     ppm     ASTM D5185m     >20     0     <1     0       Potassium     ppm     ASTM D5185m     >20     0     <100	ADDITIVES		method	limit/base	current	history1	history2
Barium     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0     <1       Magnesium     ppm     ASTM D5185m     0     <1     0     <1       Magnesium     ppm     ASTM D5185m     0     <1     0     0       Calcium     ppm     ASTM D5185m     <1     0     0     19       Zinc     ppm     ASTM D5185m     <1     0     19     0       Sulfur     ppm     ASTM D5185m     <1     0     0     0       Sulfur     ppm     ASTM D5185m     <4     0     0     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >45     2     2     4       Sodium     ppm     ASTM D5185m     >20     0     <1     0       Potassium     ppm     ASTM D5185m     >20     0     <100	Boron	maa	ASTM D5185m		0	0	0
Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     0     <1	Barium						
Marganese   ppm   ASTM D5185m   0   <1							
Magnesium     ppm     ASTM D5185m     0     <1	-		ASTM D5185m				<1
Calcium     ppm     ASTM D5185m     <1	-					<1	
Phosphorus     ppm     ASTM D5185m     <1	0				-		0
Zinc     ppm     ASTM D5185m     0     1     0       Sulfur     ppm     ASTM D5185m     4     0     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >45     2     2     4       Sodium     ppm     ASTM D5185m     >45     2     2     4       Sodium     ppm     ASTM D5185m     >20     0     <1     0       Potassium     ppm     ASTM D5185m     >20     0     <1     0       Water     %     ASTM D6304     >0.6     0.003     0.001     0.119       ppm Water     ppm     ASTM D6304     >0.6     0.003     0.001     0.119       particles >4µm     ASTM D7647     >25.0     1602     552.3     4.41694       Particles >6µm     ASTM D7647     >32.0     4.19     1027     8026       Particles >14µm     ASTM D7647     >20     4     17     16							19
SulfurppmASTM D5185m400CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>45224SodiumppmASTM D5185m>00<10PotassiumppmASTM D6304>0.60.0030.0010.119ppm Water%ASTM D6304>0.60.0030.0010.119ppm WaterppmASTM D630425.49.21190FLUID CLEANLINESSmethodlimit/basecurrenthistory1Aistory2Particles >4µmASTM D7647>25001602552341694Particles >6µmASTM D7647>3204 41910278026Particles >14µmASTM D7647>204417Particles >21µmASTM D7647>3000Oil CleanlinessISO 4406 (c)>18/15/1318/16/1220/17/1223/20/15FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	•						
Silicon   ppm   ASTM D5185m   >45   2   2   4     Sodium   ppm   ASTM D5185m   >45   0   0   <1	Sulfur						
Silicon   ppm   ASTM D5185m   >45   2   2   4     Sodium   ppm   ASTM D5185m   0   0   <1	CONTAMINANTS	;	method	limit/base	current	history1	history2
Sodium     ppm     ASTM D5185m     0     0     <1	Silicon	maa	ASTM D5185m	>45	2		4
Potassium     ppm     ASTM D5185m     >20     0     <1							
Water   %   ASTM D6304   >0.6   0.003   0.001   0.119     ppm   Water   ppm   ASTM D6304   >0.6   0.003   0.001   0.119     ppm Water   ppm   ASTM D6304   25.4   9.2   1190     FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   >2500   1602   5523   41694     Particles >6µm   ASTM D7647   >320   419   1027   8026     Particles >14µm   ASTM D7647   >80   25   25   176     Particles >21µm   ASTM D7647   >20   4   4   17     Particles >38µm   ASTM D7647   >3   0   0   0     Oli Cleanliness   ISO 4406 (c)   >18/15/13   18/16/12   20/17/12   23/20/15     FLUID DEGRADATION   method   limit/base   current   history1   history2				>20			
ppm Water     ppm     ASTM D6304     25.4     9.2     1190       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >2500     1602     5523     41694       Particles >6µm     ASTM D7647     >320     419     1027     & 8026       Particles >14µm     ASTM D7647     >80     25     25     176       Particles >14µm     ASTM D7647     >20     4     4     17       Particles >21µm     ASTM D7647     >20     4     4     17       Particles >38µm     ASTM D7647     >3     0     1     1       Particles >71µm     ASTM D7647     >3     0     0     0     20/17/12     23/20/15       FLUID DEGRADATION     method     limit/base     current     history1     history2							
Particles >4µm   ASTM D7647   >2500   1602   5523   41694     Particles >6µm   ASTM D7647   >320   419   1027   8026     Particles >14µm   ASTM D7647   >80   25   25   176     Particles >21µm   ASTM D7647   >20   4   4   17     Particles >38µm   ASTM D7647   >4   0   1   1     Particles >71µm   ASTM D7647   >3   0   0   0     Oil Cleanliness   ISO 4406 (c)   >18/15/13   18/16/12   20/17/12   23/20/15							
Particles >6μm   ASTM D7647   >320   ▲ 119   ▲ 1027   ▲ 8026     Particles >14μm   ASTM D7647   >80   25   25   176     Particles >21μm   ASTM D7647   >20   4   4   17     Particles >38μm   ASTM D7647   >4   0   1   1     Particles >38μm   ASTM D7647   >4   0   1   1     Particles >71μm   ASTM D7647   >3   0   0   0     Oil Cleanliness   ISO 4406 (c)   >18/15/13   18/16/12   20/17/12   23/20/15     FLUID DEGRADATION   method   limit/base   current   history1   history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >6μm   ASTM D7647   >320   ▲ 119   ▲ 1027   ▲ 8026     Particles >14μm   ASTM D7647   >80   25   25   176     Particles >21μm   ASTM D7647   >20   4   4   17     Particles >38μm   ASTM D7647   >4   0   1   1     Particles >38μm   ASTM D7647   >4   0   1   1     Particles >71μm   ASTM D7647   >3   0   0   0     Oil Cleanliness   ISO 4406 (c)   >18/15/13   18/16/12   20/17/12   23/20/15     FLUID DEGRADATION   method   limit/base   current   history1   history2	Particles >4µm		ASTM D7647	>2500	1602	▲ 5523	41694
Particles >14µm   ASTM D7647   >80   25   25   ▲ 176     Particles >21µm   ASTM D7647   >20   4   4   17     Particles >38µm   ASTM D7647   >4   0   1   1     Particles >38µm   ASTM D7647   >3   0   0   0     Particles >71µm   ASTM D7647   >3   0   0   0     Oil Cleanliness   ISO 4406 (c)   >18/15/13   18/16/12   20/17/12   23/20/15     FLUID DEGRADATION   method   limit/base   current   history1   history2	Particles >6µm			>320	<u> </u>	▲ 1027	▲ 8026
Particles >21μm     ASTM D7647     >20     4     4     17       Particles >38μm     ASTM D7647     >4     0     1     1       Particles >38μm     ASTM D7647     >4     0     0     0       Particles >71μm     ASTM D7647     >3     0     0     0       Oil Cleanliness     ISO 4406 (c)     >18/15/13     18/16/12     20/17/12     23/20/15       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >14µm		ASTM D7647				
Particles >38μm     ASTM D7647     >4     0     1     1       Particles >71μm     ASTM D7647     >3     0     0     0       Oil Cleanliness     ISO 4406 (c)     >18/15/13 <b>18/16/12</b> 20/17/12     23/20/15       FLUID DEGRADATION     method     limit/base     current     history1     history2	1						
Particles >71μm     ASTM D7647     >3     0     0     0       Oil Cleanliness     ISO 4406 (c)     >18/15/13     18/16/12     20/17/12     23/20/15       FLUID DEGRADATION     method     limit/base     current     history1     history2			ASTM D7647			1	
Oil Cleanliness   ISO 4406 (c) >18/15/13   18/16/12   20/17/12   23/20/15     FLUID DEGRADATION   method   limit/base   current   history1   history2							
	Oil Cleanliness						
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)						

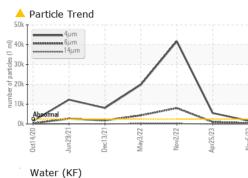
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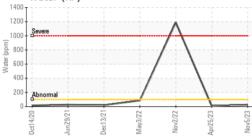


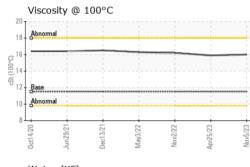
## **OIL ANALYSIS REPORT**

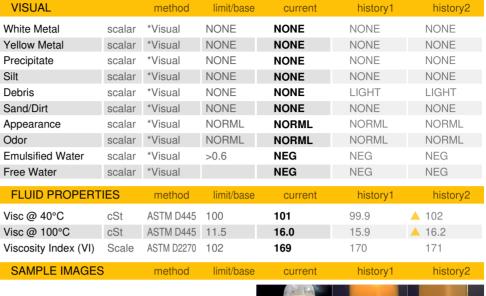
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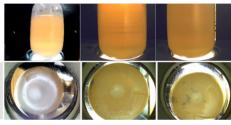
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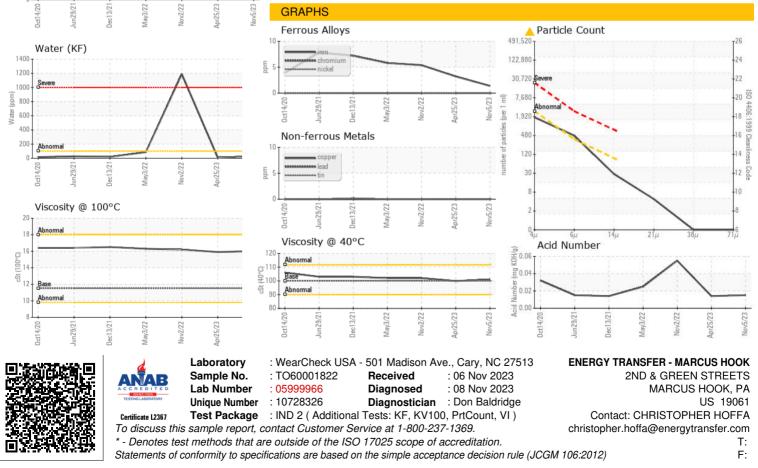












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