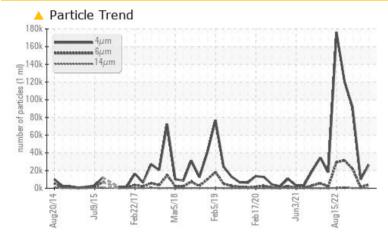


## **PROBLEM SUMMARY**

# FES C 1 (S/N S0846)

Refrigeration Compressor Fluid USPI ALT-68 SC (100 GAL)

#### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TE	ST RESULTS			
Sample Status		ATTENTION	NORMAL	ABNORMAL
Particles >6µm	ASTM D7647 >2	500 🔺 <b>4113</b>	1063	<b>A</b> 21986
Oil Cleanliness	ISO 4406 (c) >	/18/15 🔺 22/19/14	21/17/11	▲ 24/22/14

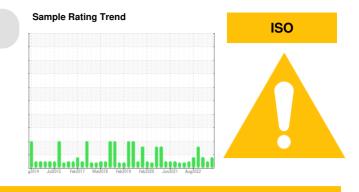
Customer Id: TYSFORMS Sample No.: USP0001861 Lab Number: 05961813 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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



#### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

#### HISTORICAL DIAGNOSIS

#### 16 Jul 2023 Diag: Doug Bogart



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The

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



#### 06 Feb 2023 Diag: Doug Bogart

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.





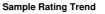
31 Oct 2022 Diag: Doug Bogart

We recommend you service the filters on this component. 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





### **OIL ANALYSIS REPORT**



#### ISO

# FES C 1 (S/N S0846)

Refrigeration Compressor Fluid USPI ALT-68 SC (100 GAL)

#### DIAGNOSIS

#### Recommendation

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.

# 2014 Ju2015 Feb2017 Mar2018 Feb2013 Feb2020 Junt021 Mar2012

Sample Number     Client Info     USP001861     USP243716       Oli Clange     Client Info     N/A     ATTM251555     Current     history1     history2     N/A     N/A	SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Date     Client Info     26 Sep 2023     16 Jul 2023     06 Feb 2023       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       Sample Status     Client Info     N/A     N/A     N/A       WEAR METALS     method     Imit/base     current     history1     history2       Iron     ppm     ASTM 05165m     >8     1     1     3       Okckel     ppm     ASTM 05165m     >2     0     0     -1       Nickel     ppm     ASTM 05165m     >2     0     0     -1       Aluminum     ppm     ASTM 05165m     >2     0     0     -1       Aluminum     ppm     ASTM 05165m     >2     0     0     -1       Aluminum     ppm     ASTM 05165m     >2     0     0     -1       Vanadium     ppm     ASTM 05165m							
Machine Age     hrs     Client Info     0     0     0     0       Oil Age     hrs     Client Info     0     0     0     0       Oil Changed     Client Info     N/A     N/A     N/A     N/A       Sample Status     Client Info     ATTENTION     NORMAL     ABNORMAL       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >2     0     0     0       Nickel     ppm     ASTM D5185m     >2     0     0     -1       Aluminum     ppm     ASTM D5185m     >2     0     0     -1       Silver     ppm     ASTM D5185m     >2     0     0     -1       Aluminum     ppm     ASTM D5185m     >4     <1							
Oil Age     hrs     Client Info     NA     NA     NA       Sample Status     Client Info     NA     NA     NA     NA       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >8     1     1     3     C       Chromium     ppm     ASTM D5185m     >2     0     0     0     0       Nickel     ppm     ASTM D5185m     >2     0     0     -1     0     0     0       Auminum     ppm     ASTM D5185m     >2     0		h an			-		
Oil Changed     Client Info     N/A     N/A     N/A     N/A       Sample Status     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >8     1     1     3       Chromium     ppm     ASTM D5185m     >2     0     0     0       Nickel     ppm     ASTM D5185m     >2     0     0     -1       Nickel     ppm     ASTM D5185m     >2     0     0     -1       Aluminum     ppm     ASTM D5185m     >2     0     0     0       Cadmium     ppm     ASTM D5185m     >3     0     0     0       Cadmium     ppm     ASTM D5185m     >4     -1     0     0     0       Cadmium     ppm     ASTM D5185m     <4     -1     0     0     0       Cadmium     ppm     ASTM D5185m     <1     0     0     0       Barium     ppm     ASTM D5185m     <1     0	•				-		
Sample Status     method     Imit/base     current     history1     ABNORMAL       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >8     1     1     3       Chromium     ppm     ASTM D5185m     >2     0     0     0       Nickel     ppm     ASTM D5185m     >2     0     0     -1       Titanium     ppm     ASTM D5185m     >2     0     0     -1       Auminum     ppm     ASTM D5185m     >2     0     0     -1       Auminum     ppm     ASTM D5185m     >2     0     0     -1       Copper     ppm     ASTM D5185m     >4     -1     0     -1       Cadmium     ppm     ASTM D5185m     <4	•	nrs					÷
WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >8     1     1     3       Chromium     ppm     ASTM D5185m     >2     0     0     0       Nickel     ppm     ASTM D5185m     >2     0     0     -1       Titanium     ppm     ASTM D5185m     >2     0     0     -1       Auminum     ppm     ASTM D5185m     >2     0     0     0       Lead     ppm     ASTM D5185m     >2     0     0     0       Cadmium     ppm     ASTM D5185m     >4     -1     0     -1       Vanadium     ppm     ASTM D5185m     <	-		Client Into				
Iron     ppm     ASTM D5185m     >8     1     1     3       Chromium     ppm     ASTM D5185m     >2     0     0     0       Nickel     ppm     ASTM D5185m     >2     0     0     0       Silver     ppm     ASTM D5185m     >2     0     0     0       Silver     ppm     ASTM D5185m     >2     0     0     0       Lead     ppm     ASTM D5185m     >3     0     0     0       Copper     ppm     ASTM D5185m     >8     <1     0     0       Vanadium     ppm     ASTM D5185m     >4     <1     0     0       Cadmium     ppm     ASTM D5185m     <4     <1     0     0       Boron     ppm     ASTM D5185m     <0     0     0     0       Magnesium     ppm     ASTM D5185m     <1     0     0     0       Coldeum     ppm     ASTM D5185m     <1     0     0     0	Sample Status				ATTENTION	NORIVIAL	ABINORIVIAL
Chromium     ppm     ASTM D5185m     >2     0     0     0       Nickel     ppm     ASTM D5185m     0     0     <1       Titanium     ppm     ASTM D5185m     >2     0     0     <1       Silver     ppm     ASTM D5185m     >2     0     0     0       Lead     ppm     ASTM D5185m     >3     0     0     0       Copper     ppm     ASTM D5185m     >4     <1     0     0       Vanadium     ppm     ASTM D5185m     >4     <1     0     0       Cadmium     ppm     ASTM D5185m     <4     <1     0     0       Astm D5185m      <1     0     0     0     0       Cadmium     ppm     ASTM D5185m     <1     0     0     0       Baron     ppm     ASTM D5185m     <1     0     0     0       Coldeum     ppm     ASTM D5185m     <1     0     0     0 <td< th=""><th>WEAR METALS</th><th></th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></td<>	WEAR METALS		method	limit/base	current	history1	history2
Nickel     ppm     ASTM D5185m     0     0     <1       Titanium     ppm     ASTM D5185m     >2     0     0     <1	Iron	ppm	ASTM D5185m	>8	1	1	3
Titanium     ppm     ASTM D5185m     <1     0     0       Silver     ppm     ASTM D5185m     >2     0     0     <1	Chromium	ppm	ASTM D5185m	>2	0	0	0
Silver     ppm     ASTM D5185m     >2     0     0     <1       Aluminum     ppm     ASTM D5185m     >3     0     0     0       Lead     ppm     ASTM D5185m     >2     0     0     0       Copper     ppm     ASTM D5185m     >8     <1	Nickel	ppm	ASTM D5185m		0	0	<1
Aluminum     ppm     ASTM D5185m     >3     0     0     0       Lead     ppm     ASTM D5185m     >2     0     0     0       Copper     ppm     ASTM D5185m     >2     0     0     0       Vanadium     ppm     ASTM D5185m     >4     <1	Titanium	ppm	ASTM D5185m		<1	0	0
Lead     ppm     ASTM D5185m     >2     0     0     0       Copper     ppm     ASTM D5185m     >8     <1	Silver	ppm	ASTM D5185m	>2	0	0	<1
Copper     ppm     ASTM D5185m     >8     <1     0     <1       Tin     ppm     ASTM D5185m     >4     <1	Aluminum	ppm	ASTM D5185m	>3	0	0	0
Tin   ppm   ASTM D5185m   >4   <1   0   <1     Vanadium   ppm   ASTM D5185m   <1   0   0     Cadmium   ppm   ASTM D5185m   <1   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     Magnese   ppm   ASTM D5185m   0   0   0   0     Magnesium   ppm   ASTM D5185m   <1   0   0   0     Calcium   ppm   ASTM D5185m   0   <1   0   0     Jilton   ppm   ASTM D5185m   0   16   17   8     CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m   >15   3   2   2   2     Sodium   ppm   ASTM D5185m   >15   3   2   2 <t< td=""><td>Lead</td><td>ppm</td><td>ASTM D5185m</td><td>&gt;2</td><th>0</th><td>0</td><td>0</td></t<>	Lead	ppm	ASTM D5185m	>2	0	0	0
Vanadium     ppm     ASTM D5185m     <1     0     0       Cadmium     ppm     ASTM D5185m     <1	Copper	ppm	ASTM D5185m	>8	<1	0	<1
Cadmium     ppm     ASTM D5185m     <1     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       Manganese     ppm     ASTM D5185m     <1     0     0     0       Magnesium     ppm     ASTM D5185m     <1     0     0     0       Calcium     ppm     ASTM D5185m     <1     0     0     0       Sulfur     ppm     ASTM D5185m     <16     0     0     0       Sulfur     ppm     ASTM D5185m     50     16     17     8       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >20     1     0     <1 <	Tin	ppm	ASTM D5185m	>4	<1	0	<1
ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0       Magnese     ppm     ASTM D5185m     <1	Vanadium	ppm	ASTM D5185m		<1	0	0
Boron     ppm     ASTM D5185m     0     0     0       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     <1	Cadmium		ASTM D5185m		<1	0	0
Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     <1     0     0       Magnesium     ppm     ASTM D5185m     <1     0     0       Calcium     ppm     ASTM D5185m     <1     0     0       Phosphorus     ppm     ASTM D5185m     0     <1     0       Zinc     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     50     16     17     8       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     3     2     2       Sodium     ppm     ASTM D5185m     >20     1     0     <1       Potassium     ppm     ASTM D5630     >0.01     0.004     0.006     0.004       ppm Water     ppm     ASTM D	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     <1	Boron	ppm	ASTM D5185m		0	0	0
Manganese     ppm     ASTM D5185m     <1     0     0       Magnesium     ppm     ASTM D5185m     <1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium     ppm     ASTM D5185m     <1     0     0       Calcium     ppm     ASTM D5185m     0     <1	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium   ppm   ASTM D5185m   <1   0   0     Phosphorus   ppm   ASTM D5185m   0   <1   0     Zinc   ppm   ASTM D5185m   0   0   0     Sulfur   ppm   ASTM D5185m   50   16   17   8     CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m   >15   3   2   2     Sodium   ppm   ASTM D5185m   >15   3   2   2     Sodium   ppm   ASTM D5185m   >20   1   0   <1     Potassium   ppm   ASTM D5185m   >20   1   0   <1     Water   %   ASTM D6304   >0.01   0.004   0.006   0.004     ppm   ASTM D7647   26203   10112   91539     Particles >4µm   ASTM D7647   >2500   4113   1063   21986     Particles >14µm   ASTM D7647   >200   16   126     Particles >21µm   ASTM D7647	Manganese	ppm	ASTM D5185m		<1	0	0
Phosphorus     ppm     ASTM D5185m     0     <1     0       Zinc     ppm     ASTM D5185m     50     16     17     8       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     3     2     2       Sodium     ppm     ASTM D5185m     >20     1     0     <1       Potassium     ppm     ASTM D5185m     >20     1     0     <1       Water     %     ASTM D5185m     >20     1     0     <1     0       Particles >4µm     ASTM D5044     >0.01     0.004     0.006     0.004     21986       Particles >4µm     ASTM D7647     >2500     4113	Magnesium	ppm	ASTM D5185m		<1	0	0
Zinc     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     50     16     17     8       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     3     2     2     2       Sodium     ppm     ASTM D5185m     >15     3     2     2     2       Sodium     ppm     ASTM D5185m     >20     1     0     <1	Calcium	ppm	ASTM D5185m		<1	0	0
Sulfur     ppm     ASTM D5185m     50     16     17     8       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     3     2     2       Sodium     ppm     ASTM D5185m     >15     3     2     2       Sodium     ppm     ASTM D5185m     >20     1     0     <1       Potassium     ppm     ASTM D5185m     >20     1     0     <1       Water     %     ASTM D5185m     >20     1     0     <1       Water     %     ASTM D6304     >0.01     0.004     0.006     0.004       ppm Water     ppm     ASTM D6304     >100     49.8     62.1     40.3       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >2500     4113     1063     21986       Particles >51µm     ASTM D7647     >20     0	Phosphorus	ppm	ASTM D5185m		0	<1	0
CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     3     2     2       Sodium     ppm     ASTM D5185m     >15     3     2     2       Sodium     ppm     ASTM D5185m     >20     1     0     <1	Zinc	ppm	ASTM D5185m		0	0	0
Silicon   ppm   ASTM D5185m   >15   3   2   2     Sodium   ppm   ASTM D5185m   <11   0   <1     Potassium   ppm   ASTM D5185m   >20   1   0   <1     Potassium   ppm   ASTM D5185m   >20   1   0   <1     Water   %   ASTM D6304   >0.01   0.004   0.006   0.004     ppm Water   ppm   ASTM D6304   >100   49.8   62.1   40.3     FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   2500   4   4113   1063   21986     Particles >6µm   ASTM D7647   >320   90   16   126     Particles >14µm   ASTM D7647   >320   90   16   126     Particles >21µm   ASTM D7647   >20   0   1   3     Particles >38µm   ASTM D7647   >20   0   1   3     Particles >71µm   ASTM D7647   20   0   1   3	Sulfur	ppm	ASTM D5185m	50	16	17	8
Sodium     ppm     ASTM D5185m     <1     0     <1       Potassium     ppm     ASTM D5185m     >20     1     0     <1	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium     ppm     ASTM D5185m     <1     0     <1       Potassium     ppm     ASTM D5185m     >20     1     0     <1	Silicon	ppm	ASTM D5185m	>15	3	2	2
Water   %   ASTM D6304   >0.01   0.004   0.006   0.004     ppm Water   ppm   ASTM D6304   >100   49.8   62.1   40.3     FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   26203   10112   91539     Particles >6µm   ASTM D7647   >2500   ▲ 4113   1063   ▲ 21986     Particles >14µm   ASTM D7647   >320   90   16   126     Particles >21µm   ASTM D7647   >20   0   1   3     Particles >38µm   ASTM D7647   >20   0   1   3     Particles >71µm   ASTM D7647   >4   0   0   1     Oil Cleanliness   ISO 4406 (c)   >/18/15   22/19/14   21/17/11   24/22/14     FLUID DEGRADATION   method   limit/base   current   history1   history2	Sodium		ASTM D5185m		<1	0	<1
ppm Water     ppm     ASTM D6304     >100     49.8     62.1     40.3       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     26203     10112     91539       Particles >6µm     ASTM D7647     >2500     ▲ 4113     1063     ▲ 21986       Particles >14µm     ASTM D7647     >320     90     16     126       Particles >14µm     ASTM D7647     >320     90     16     126       Particles >21µm     ASTM D7647     >80     13     5     9       Particles >38µm     ASTM D7647     >20     0     1     3       Particles >71µm     ASTM D7647     >4     0     0     1       Oil Cleanliness     ISO 4406 (c)     >/18/15     22/19/14     21/17/11     24/22/14       FLUID DEGRADATION     method     limit/base     current     history1     history2	Potassium	ppm	ASTM D5185m	>20	1	0	<1
FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   26203   10112   91539     Particles >6µm   ASTM D7647   >2500   ▲ 4113   1063   ▲ 21986     Particles >6µm   ASTM D7647   >320   90   16   126     Particles >14µm   ASTM D7647   >320   90   16   126     Particles >21µm   ASTM D7647   >80   13   5   9     Particles >38µm   ASTM D7647   >20   0   1   3     Particles >71µm   ASTM D7647   >4   0   0   1     Oil Cleanliness   ISO 4406 (c)   >/18/15   22/19/14   21/17/11   24/22/14     FLUID DEGRADATION   method   limit/base   current   history1   history2	Water		ASTM D6304	>0.01	0.004	0.006	0.004
Particles >4μm   ASTM D7647   26203   10112   91539     Particles >6μm   ASTM D7647   >2500   ▲ 4113   1063   ▲ 21986     Particles >14μm   ASTM D7647   >320   90   16   126     Particles >21μm   ASTM D7647   >80   13   5   9     Particles >21μm   ASTM D7647   >20   0   1   3     Particles >38μm   ASTM D7647   >20   0   1   3     Particles >71μm   ASTM D7647   >4   0   0   1     Oil Cleanliness   ISO 4406 (c)   >/18/15   22/19/14   21/17/11   24/22/14     FLUID DEGRADATION   method   limit/base   current   history1   history2	ppm Water	ppm	ASTM D6304	>100	49.8	62.1	40.3
Particles >6µm     ASTM D7647     >2500     ▲ 4113     1063     ≥1986       Particles >14µm     ASTM D7647     >320     90     16     126       Particles >21µm     ASTM D7647     >80     13     5     9       Particles >38µm     ASTM D7647     >20     0     1     3       Particles >38µm     ASTM D7647     >20     0     1     3       Particles >71µm     ASTM D7647     >4     0     0     1       Oil Cleanliness     ISO 4406 (c)     >/18/15     22/19/14     21/17/11     24/22/14       FLUID DEGRADATION     method     limit/base     current     history1     history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm     ASTM D7647     >320     90     16     126       Particles >21µm     ASTM D7647     >80     13     5     9       Particles >38µm     ASTM D7647     >20     0     1     3       Particles >71µm     ASTM D7647     >4     0     0     1       Oil Cleanliness     ISO 4406 (c)     >/18/15     22/19/14     21/17/11     24/22/14       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >4µm		ASTM D7647		26203	10112	91539
Particles >21µm     ASTM D7647     >80     13     5     9       Particles >38µm     ASTM D7647     >20     0     1     3       Particles >38µm     ASTM D7647     >20     0     1     3       Particles >71µm     ASTM D7647     >4     0     0     1       Oil Cleanliness     ISO 4406 (c)     >/18/15     22/19/14     21/17/11     24/22/14       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >6µm		ASTM D7647	>2500	<u> </u>	1063	<b>A</b> 21986
Particles >38μm     ASTM D7647     >20     0     1     3       Particles >71μm     ASTM D7647     >4     0     0     1       Oil Cleanliness     ISO 4406 (c)     >/18/15     22/19/14     21/17/11     24/22/14       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >14µm		ASTM D7647	>320	90	16	126
Particles >71μm     ASTM D7647     >4     0     0     1       Oil Cleanliness     ISO 4406 (c)     >/18/15     22/19/14     21/17/11     24/22/14       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >21µm		ASTM D7647	>80	13	5	9
Oil Cleanliness   ISO 4406 (c) >/18/15   22/19/14   21/17/11   24/22/14     FLUID DEGRADATION   method   limit/base   current   history1   history2	Particles >38µm		ASTM D7647	>20	0	1	3
Oil Cleanliness   ISO 4406 (c) >/18/15   22/19/14   21/17/11   24/22/14     FLUID DEGRADATION   method   limit/base   current   history1   history2	Particles >71µm		ASTM D7647	>4	0	0	1
	Oil Cleanliness				<b>A</b> 22/19/14	21/17/11	▲ 24/22/14
Acid Number (AN) mg KOH/g ASTM D974 0.005 0.015 0.013 0.015	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.015	0.013	0.015



Acid Number

0.04

(B/HO)

## **OIL ANALYSIS REPORT**

scalar

scalar

scalar

scalar

scalar

method

\*Visual

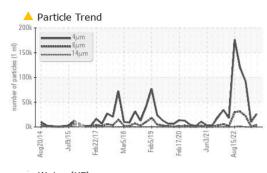
\*Visual

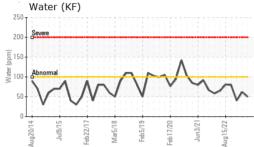
\*Visual

\*Visual

\*Visual

scalar \*Visual







limit/base

NONE

NONE

NONE

NONE

NONE

NONE

current

NONE

NONE

NONE

NONE

NONE

NONE

history1

NONE

NONE

NONE

NONE

NONE

NONE

history2

NONE

NONE

NONE

NONE

VLITE

NONE

Bottom

Color

VISUAL

White Metal

Yellow Metal

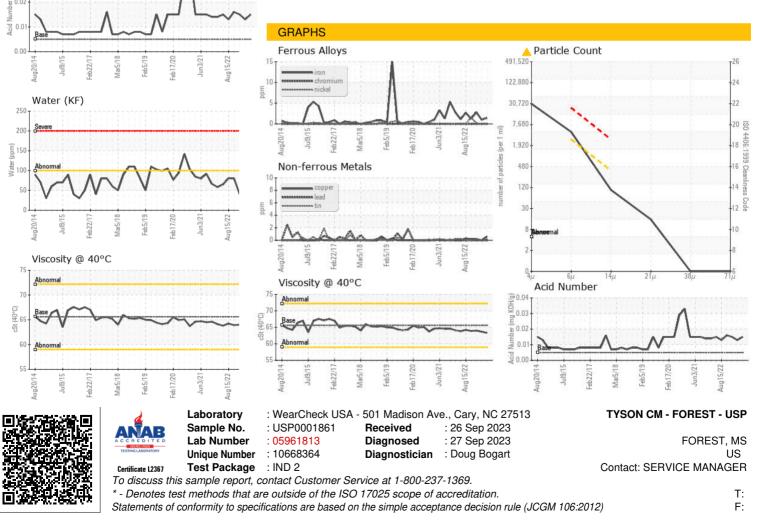
Precipitate

Silt

Debris

Odor

Sand/Dirt



Report Id: TYSFORMS [WUSCAR] 05961813 (Generated: 10/04/2023 20:05:59) Rev: 1

Contact/Location: SERVICE MANAGER - TYSFORMS