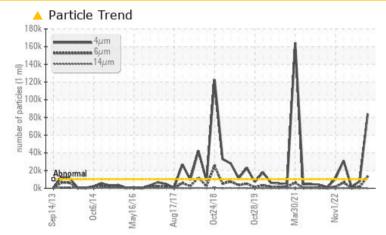


# **PROBLEM SUMMARY**

# Machine Id **TYSSPRCH-B1** Component

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

# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC T	EST RESULTS				
Sample Status			ABNORMAL	NORMAL	NORMAL
Particles >4µm	ASTM D7647	>10000	<u> </u>	7738	1363
Particles >6µm	ASTM D7647	>2500	🔺 13349	1326	322
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<u> </u>	20/18/13	18/16/11

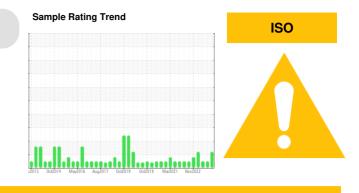
Customer Id: TYSSPRCH Sample No.: USP0003782 Lab Number: 06017429 Test Package: IND 2



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

# 15 Aug 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 oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



# 03 May 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 oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

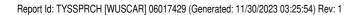




02 Feb 2023 Diag: Doug Bogart

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.







# **OIL ANALYSIS REPORT**

Sample Rating Trend

# ISO

# Machine Id TYSSPRCH-B1

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

# DIAGNOSIS

# Recommendation

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

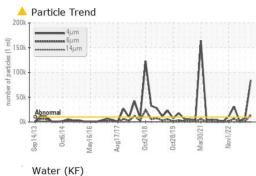
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

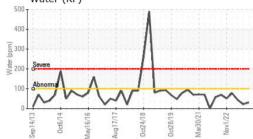
# 

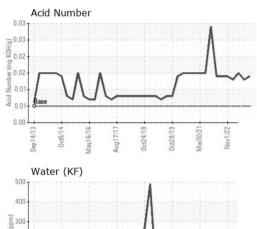
Sample Date         Client Info         21 Nov 2023         15 Aug 2023         03 May 2023           Machine Age         hrs         Client Info         0         0         0           Oil Age         hrs         Client Info         0         0         0           Sample Status         Client Info         N/A         N/A         N/A         N/A         N/A           WEAR METALS         method         limit/base         current         history1         history1         history2           Iron         ppm         ASTM 05155m         >8         2         3         <1	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       Oll Changed     Client Info     N/A     N/A     N/A       Sample Status     I     Imit/base     current     history1     NoRMAL       WEAR METALS     method     Imit/base     current     history1     history2       Iron     ppm     ASTM 05185m     >2     0     0     0       Nickel     ppm     ASTM 05185m     >2     0     0     0       Titanium     ppm     ASTM 05185m     >2     0     0     0       Silver     ppm     ASTM 05185m     >2     0     0     0       Cadmium     ppm     ASTM 05185m     >2     0     0     0       Vanadium     ppm     ASTM 05185m     >3     0     0     0       Adminum     ppm     ASTM 05185m     >4     0     0     0       Cadmium     ppm     ASTM 05185m     >6     0     0     0       Manganese     ppm     ASTM 05185m     0     0     0     0       Manganese     ppm     ASTM 05185m     0     0     0     1 <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>USP0003782</th> <th>USP0000579</th> <th>USP243305</th>	Sample Number		Client Info		USP0003782	USP0000579	USP243305
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         >8         2         3         <1           Chromium         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Capper         ppm         ASTM D5185m         >2         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ASTM D5185m         0         0         0         0         0         0           Barinu	Sample Date		Client Info		21 Nov 2023	15 Aug 2023	03 May 2023
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         2         3         <1	Machine Age	hrs	Client Info		0	0	0
Sample Status         method         Imit/base         current         history1         NORMAL           WEAR METALS         method         Imit/base         current         history2         history2           Iron         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           ABUMINIUM         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >2         0         0         0           Cadmium         ppm         ASTM D5185m         S         <1         0         0           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         <1         1	Oil Age	hrs	Client Info		0	0	0
Sample Status         method         imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >8         2         3         <1           Chromium         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Titanium         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >2         0         0         0           Cadmium         ppm         ASTM D5185m         >4         0         0         0           ADDITIVES         method         imit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         1         1	-		Client Info		N/A	N/A	N/A
Iron         ppm         ASTM D5185m         >8         2         3         <1	Sample Status				ABNORMAL	NORMAL	NORMAL
Chromium         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         0         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >2         0         0         0           Vanadium         ppm         ASTM D5185m         >4         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0           Adamium         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0           Galeium         ppm         ASTM D5185m         0         0         <1         1           Phosphorus         ppm         ASTM D5185m         0         <1         0         0 <th>WEAR METALS</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	WEAR METALS		method	limit/base	current	history1	history2
Chromium         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         0         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >2         0         0         0           Vanadium         ppm         ASTM D5185m         >4         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0           Adamium         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0           Galeium         ppm         ASTM D5185m         0         0         <1	Iron	maa	ASTM D5185m	>8	2	3	<1
Nickel         ppm         ASTM D5185m         0         0         0           Titanium         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >2         0         0         0           Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >8         <1	Chromium			>2			
Titanium         ppm         ASTM D5185m         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >2         0         0         0           Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >4         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0         <1					-		
Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >3         0         0         0           Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >8         <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         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         0         0         <1				>2	-		
Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >8         <1					-		
Copper         ppm         ASTM D5185m         >8         <1         0         <1           Tin         ppm         ASTM D5185m         >4         0         0         0           Vanadium         ppm         ASTM D5185m         0         <1					-		
Tin         ppm         ASTM D5185m         >4         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           Maganese         ppm         ASTM D5185m         0         0         0         0           Maganese         ppm         ASTM D5185m         0         0         0         11           Phosphorus         ppm         ASTM D5185m         0         0         1         1           Phosphorus         ppm         ASTM D5185m         0         0         4         1           CONTAMINANTS         method         limit/base         current         history1         history2           Sulfur         ppm         ASTM D5185m         50         0         <1					-		
Vanadium         ppm         ASTM D5185m         0         <1         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           Maganese         ppm         ASTM D5185m         0         0         0         11           Calcium         ppm         ASTM D5185m         0         0         <11							
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           Manganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         <11         1           Zinc         ppm         ASTM D5185m         0         <11         1         2           Sulfur         ppm         ASTM D5185m         50         0         <11         1           Sodium         ppm         ASTM D5185m         50         <1         <11         1           Sodium         ppm         ASTM D5185m         >15         0         <1         1         1           Sodium         ppm         ASTM D5185m         >20         0         <1				24	-		
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         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         <1					-		
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         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         <1           Calcium         ppm         ASTM D5185m         0         0         <1           Calcium         ppm         ASTM D5185m         0         <1         1           Zinc         ppm         ASTM D5185m         0         <1         1           Zinc         ppm         ASTM D5185m         50         0         0         4           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1         1           Sodium         ppm         ASTM D5185m         >20         0         <1         1           Water         %         ASTM D5185m         >20         0         <133.9<		ppm		limit/base	-	-	-
Barium         ppm         ASTM D5185m         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         <1				in the base			
Molybdenum         ppm         ASTM D5185m         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         <1							
Manganese         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         <1							
Magnesium         ppm         ASTM D5185m         0         0         <1           Calcium         ppm         ASTM D5185m         0         0         <1	,						
Calcium         ppm         ASTM D5185m         0         <1           Phosphorus         ppm         ASTM D5185m         0         <1	0				-		
Phosphorus         ppm         ASTM D5185m         0         <1         1           Zinc         ppm         ASTM D5185m         2         <1         2           Sulfur         ppm         ASTM D5185m         50         0         0         4           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1         <1           Sodium         ppm         ASTM D5185m         >15         0         <1         <1           Sodium         ppm         ASTM D5185m         >20         0         <1         1           Water         %         ASTM D5185m         >20         0         <11         1           Water         %         ASTM D5185m         >20         0         <11         1           Water         %         ASTM D6304         >0.01         0.003         0.002         0.004           ppm Water         ppm         ASTM D7647         >10000         & 83915         7738         1363           Particles >4µm         ASTM D7647         >2500         13349         1326         322     <	0	ppm					
Zinc       ppm       ASTM D5185m       2       <1       2         Sulfur       ppm       ASTM D5185m       50       0       0       4         CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >15       0       <1       <1         Sodium       ppm       ASTM D5185m       >15       0       <1       <1         Sodium       ppm       ASTM D5185m       >20       0       <1       1         Water       %       ASTM D6304       >0.01       0.003       0.002       0.004         ppm Water       ppm       ASTM D6304       >100       30       21.3       43.9         FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >10000       & 83915       7738       1363         Particles >6µm       ASTM D7647       >2500       13349       1326       322         Particles >1µm       ASTM D7647       >320       28       56       13         Particles >21µm       ASTM D7647       >20       0       0 <t< td=""><td></td><td>ppm</td><td>ASTM D5185m</td><td></td><th></th><td></td><td></td></t<>		ppm	ASTM D5185m				
Sulfur         ppm         ASTM D5185m         50         0         0         4           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1         <1           Sodium         ppm         ASTM D5185m         >15         0         <1         0         0           Potassium         ppm         ASTM D5185m         >20         0         <1         1           Water         %         ASTM D6304         >0.01         0.003         0.002         0.004           ppm Water         ppm         ASTM D6304         >100         30         21.3         43.9           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         & 83915         7738         1363           Particles >6µm         ASTM D7647         >2500         13349         1326         322           Particles >1µm         ASTM D7647         >80         5         17         3           Particles >21µm         ASTM D7647         20         0		ppm			-		
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1	Zinc	ppm	ASTM D5185m		2		
Silicon       ppm       ASTM D5185m       >15       0       <1       <1         Sodium       ppm       ASTM D5185m       >15       0       <1       0       0         Potassium       ppm       ASTM D5185m       >20       0       <1       1         Water       %       ASTM D5304       >0.01       0.003       0.002       0.004         ppm Water       ppm       ASTM D6304       >100       30       21.3       43.9         FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >10000       ▲ 83915       7738       1363         Particles >6µm       ASTM D7647       >2500       ▲ 13349       1326       322         Particles >1µm       ASTM D7647       >320       28       56       13         Particles >21µm       ASTM D7647       >20       0       0       0         Particles >38µm       ASTM D7647       >4       0       0       0         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       24/21/12       20	Sulfur	ppm	ASTM D5185m	50	0	0	4
Sodium         ppm         ASTM D5185m         <1         0         0           Potassium         ppm         ASTM D5185m         >20         0         <1	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         0         <1         1           Water         %         ASTM D6304         >0.01         0.003         0.002         0.004           ppm         ASTM D6304         >100         30         21.3         43.9           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         A 83915         7738         1363           Particles >6µm         ASTM D7647         >2500         13349         1326         322           Particles >14µm         ASTM D7647         >320         28         56         13           Particles >21µm         ASTM D7647         >20         0         0         0           Particles >38µm         ASTM D7647         >20         0         0         0           Particles >71µm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         24/21/12         20/18/13         18/16/11           FLUID DEGRADATION         method         limit/base         current         history1         history2 <td>Silicon</td> <td>ppm</td> <td>ASTM D5185m</td> <td>&gt;15</td> <th>0</th> <td>&lt;1</td> <td>&lt;1</td>	Silicon	ppm	ASTM D5185m	>15	0	<1	<1
Water         %         ASTM D6304         >0.01         0.003         0.002         0.004           ppm Water         ppm         ASTM D6304         >100         30         21.3         43.9           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         ▲ 83915         7738         1363           Particles >6µm         ASTM D7647         >2500         ▲ 13349         1326         322           Particles >14µm         ASTM D7647         >320         28         56         13           Particles >21µm         ASTM D7647         >80         5         177         3           Particles >38µm         ASTM D7647         >20         0         0         0           Particles >71µm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         24/21/12         20/18/13         18/16/11           FLUID DEGRADATION         method         limit/base         current         history1         history2	Sodium	ppm	ASTM D5185m		<1	0	0
ppm Water         ppm         ASTM D6304         >100         30         21.3         43.9           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         ▲ 83915         7738         1363           Particles >6µm         ASTM D7647         >2500         ▲ 13349         1326         322           Particles >6µm         ASTM D7647         >320         28         56         13           Particles >14µm         ASTM D7647         >80         5         17         3           Particles >21µm         ASTM D7647         >20         0         0         0           Particles >38µm         ASTM D7647         >4         0         0         0           Particles >71µm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         24/21/12         20/18/13         18/16/11           FLUID DEGRADATION         method         limit/base         current         history1         history2	Potassium	ppm	ASTM D5185m	>20	0	<1	1
FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >10000       ▲ 83915       7738       1363         Particles >6µm       ASTM D7647       >2500       ▲ 13349       1326       322         Particles >6µm       ASTM D7647       >320       28       56       13         Particles >14µm       ASTM D7647       >80       5       17       3         Particles >21µm       ASTM D7647       >20       0       0       0         Particles >38µm       ASTM D7647       >20       0       0       0         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       24/21/12       20/18/13       18/16/11         FLUID DEGRADATION       method       limit/base       current       history1       history2	Water	%	ASTM D6304	>0.01	0.003	0.002	0.004
Particles >4µm       ASTM D7647       >10000       ▲ 83915       7738       1363         Particles >6µm       ASTM D7647       >2500       ▲ 13349       1326       322         Particles >14µm       ASTM D7647       >320       28       56       13         Particles >21µm       ASTM D7647       >80       5       17       3         Particles >38µm       ASTM D7647       >20       0       0       0         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       24/21/12       20/18/13       18/16/11	ppm Water	ppm	ASTM D6304	>100	30	21.3	43.9
Particles >6µm       ASTM D7647       >2500       ▲ 13349       1326       322         Particles >14µm       ASTM D7647       >320       28       56       13         Particles >21µm       ASTM D7647       >80       5       177       3         Particles >38µm       ASTM D7647       >20       0       0       0         Particles >38µm       ASTM D7647       >20       0       0       0         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       24/21/12       20/18/13       18/16/11	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm       ASTM D7647       >320       28       56       13         Particles >21µm       ASTM D7647       >80       5       17       3         Particles >38µm       ASTM D7647       >20       0       0       0         Particles >38µm       ASTM D7647       >20       0       0       0         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       24/21/12       20/18/13       18/16/11         FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >4µm		ASTM D7647	>10000	<b>A</b> 83915	7738	1363
Particles >14µm       ASTM D7647       >320       28       56       13         Particles >21µm       ASTM D7647       >80       5       17       3         Particles >38µm       ASTM D7647       >20       0       0       0         Particles >38µm       ASTM D7647       >20       0       0       0         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       24/21/12       20/18/13       18/16/11         FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >6µm		ASTM D7647	>2500	<u> </u>	1326	322
Particles >21μm         ASTM D7647         >80         5         17         3           Particles >38μm         ASTM D7647         >20         0         0         0           Particles >37μm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         24/21/12         20/18/13         18/16/11           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >14µm						
Particles >38μm         ASTM D7647         >20         0         0         0           Particles >71μm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         24/21/12         20/18/13         18/16/11           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >21µm						
Particles >71μm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         24/21/12         20/18/13         18/16/11           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >38µm						
Oil Cleanliness         ISO 4406 (c)         >20/18/15         24/21/12         20/18/13         18/16/11           FLUID DEGRADATION         method         limit/base         current         history1         history2							
	Oil Cleanliness						
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)						

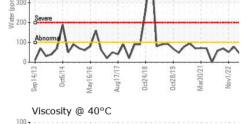


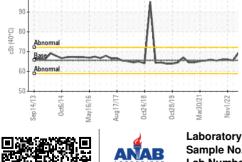
# **OIL ANALYSIS REPORT**











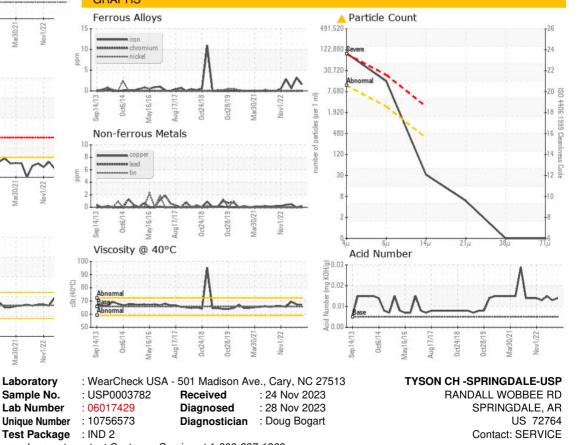
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	66.8	67.3	69.4
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
				- 6-0-	NH3 -	

Color



Bottom





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)

T:

F:

Certificate L2367