

### **OIL ANALYSIS REPORT**

ISO

Machine Id

# FES TYSVER 6 (S/N MK5-398)

Component Refrigeration Compressor

Fluid USPI 1009-68 SC (130 GAL)

#### DIAGNOSIS

#### A 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

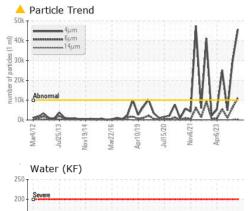
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

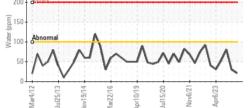
Sample Date         Client Info         27 Apr 2024         17 Jan 2024         06 Oct 2023           Machine Age         hrs         Client Info         41347         39270         72207           Oil Age         hrs         Client Info         0         0         0         0           Oil Changed         Client Info         NA         NA         NA         NA         NA           Sample Status         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >8         0         0         0           Chromium         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Cadmium         ppm         ASTM D5185m         >2         0         0         0           Vanadium         ppm         ASTM D5185m         >2         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         41347         39270         72207           Dil Age         hrs         Client Info         0         0         0           Dil Age         hrs         Client Info         N/A         N/A         N/A           Sample Status         Imit/base         current         history1         history2           WEAR METALS         method         Imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Cadmium         ppm         ASTM D5185m         >2         0         0         0           Cadmium         ppm         ASTM D5185m         >4         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Ranono         0 </th <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>USP0006617</th> <th>USP0005704</th> <th>USP0001323</th>	Sample Number		Client Info		USP0006617	USP0005704	USP0001323
Oil Age         hrs         Client Info         0         0         0           Oil Changed         Client Info         N/A         N/A         N/A         N/A           Sample Status         Image         Image         current         ABNORMAL         NORMAL           WEAR METALS         method         Imit/base         current         history1         history2           from         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         >3         0         0         0           Copper         ppm         ASTM D5185m         >4         0         0         0           Admium         ppm         ASTM D5185m         A         0         0         0           Admium         ppm         ASTM D5185m         A         0         0         0           Admium         ppm         ASTM D5185m         A         0         0         0           Admium </th <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>27 Apr 2024</th> <th>17 Jan 2024</th> <th>06 Oct 2023</th>	Sample Date		Client Info		27 Apr 2024	17 Jan 2024	06 Oct 2023
Oil Changed     Client Info     N/A     N/A     N/A     N/A       Sample Status     Image of the status     Image of the status     ABNORMAL     ABNORMAL     NORMAL       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >8     0     0     0       Chromium     ppm     ASTM D5185m     >2     0     0     0       Nickel     ppm     ASTM D5185m     >2     0     0     0       Numinum     ppm     ASTM D5185m     >2     0     0     0       Lead     ppm     ASTM D5185m     >2     0     0     0       Vanadium     ppm     ASTM D5185m     >2     0     0     0       Vanadium     ppm     ASTM D5185m     >4     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Barium     ppm     ASTM D5185m	Machine Age	hrs	Client Info		41347	39270	72207
Sample Status         method         Imit/base         current         history1         history2           Iron         ppm         ASTM 05165m         >8         0         0         0           Chromium         ppm         ASTM 05165m         >2         0         0         0           Nickel         ppm         ASTM 05165m         0         0         0         0           Titanium         ppm         ASTM 05165m         >2         0         0         0           Silver         ppm         ASTM 05165m         >2         0         0         0           Copper         ppm         ASTM 05165m         >2         0         0         0           Copper         ppm         ASTM 05165m         >2         0         0         0           Adamium         ppm         ASTM 05165m         >4         0         0         0           Adamium         ppm         ASTM 05185m         0         0         0         0           Adamium         ppm         ASTM 05185m         0         0         0         0           Copper         ppm         ASTM 05185m         0         0         0         0	Oil Age	hrs	Client Info		0	0	0
Sample Status         Image         ABNORMAL         ABNORMAL         NORMAL           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >8         0         0         0           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           Copper         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >4         0         0         0           Admium         ppm         ASTM D5185m         0         0         0         0           Admium         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0         0	Oil Changed		Client Info		N/A	N/A	N/A
ron         ppm         ASTM D5185m         >8         0         0         0           Chromium         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         0         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >3         0         0         0           Aluminum         ppm         ASTM D5185m         >3         0         0         0           Copper         ppm         ASTM D5185m         >8         0         0         0         0           Yanadium         ppm         ASTM D5185m         0         0         0         0         0           Admium         ppm         ASTM D5185m         0         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0         0           Maganese         ppm         ASTM D5185m         0         0         0         0         0           Slicon         ppm         ASTM D518	Sample Status				ABNORMAL	ABNORMAL	NORMAL
Dromium         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m          <1         0         <1           Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >2         0         0         0           Lead         ppm         ASTM D5185m         >2         0         0         0           Vanadium         ppm         ASTM D5185m         >2         0         0         0           Vanadium         ppm         ASTM D5185m         >4         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0 </th <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
Nickel         pm         ASTM D5185m         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           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Baroum         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Suffur         ppm         ASTM D5185m         50         0         0         0	Iron	ppm	ASTM D5185m	>8	0	0	0
Titanium         ppm         ASTM D5185m         <1	Chromium	ppm	ASTM D5185m	>2	0	0	0
Titanium         ppm         ASTM D5185m         <1	Nickel	ppm	ASTM D5185m		0	0	0
Atuminum         ppm         ASTM D5185m         >3         0         0         0           Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >8         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           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         20         0         0         13 <th>Titanium</th> <th></th> <th>ASTM D5185m</th> <th></th> <th>&lt;1</th> <th>0</th> <th>&lt;1</th>	Titanium		ASTM D5185m		<1	0	<1
Aluminum         ppm         ASTM D5185m         >3         0         0         0           Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >4         0         0         0           Vanadium         ppm         ASTM D5185m         >4         0         0         0           Vanadium         ppm         ASTM D5185m         >4         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         0           Magaesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         >20         0         0         13 <th>Silver</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;2</th> <th>0</th> <th>0</th> <th>0</th>	Silver	ppm	ASTM D5185m	>2	0	0	0
Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >8         0         0         0           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           Magnesium         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         0         13           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         50         0         0         0 <th>Aluminum</th> <th></th> <th>ASTM D5185m</th> <th>&gt;3</th> <th>0</th> <th>0</th> <th>0</th>	Aluminum		ASTM D5185m	>3	0	0	0
Copper         ppm         ASTM D5185m         >8         0         0         0           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           Magnesium         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         0           Sodium         ppm         ASTM D5185m         20         0         0         0 <th>Lead</th> <th></th> <th>ASTM D5185m</th> <th>&gt;2</th> <th>0</th> <th>0</th> <th>0</th>	Lead		ASTM D5185m	>2	0	0	0
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           Barium         ppm         ASTM D5185m         0         0         0         0           Magnesse         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         <1         1         1         1           Phosphorus         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         1         0         <1           Potassium         ppm         ASTM D5185m         >15         0         <1         0         <1         0         <1         0         <1         0         <1<							
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           Barium         ppm         ASTM D5185m         0         0         0         0           Magnesiam         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Stliton         ppm         ASTM D5185m         0         0         0         0           Soliton         ppm         ASTM D5185m         50         0         0         0           Soliton         ppm         ASTM D5185m         50         0         0         0           Soliton         ppm         ASTM D5185m         20         0         0         0	Tin			>4		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           Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Magnese         ppm         ASTM D5185m         0         0         0         0           Galcium         ppm         ASTM D5185m         0         0         0         0           Contram         ppm         ASTM D5185m         0         0         0         0           Stifur         ppm         ASTM D5185m         50         0         0         0           Stifur         ppm         ASTM D5185m         515         0         <1	Vanadium						
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         0           Calcium         ppm         ASTM D5185m         0         0         0           Phosphorus         ppm         ASTM D5185m         0         0         0           Zinc         ppm         ASTM D5185m         50         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         1           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >1         0         <1         0           Potassium         ppm         ASTM D5185m         >20         0         0         0         0           Particles >4µm         ASTM D6304         >0.01	Cadmium						
Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Maganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         13           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >1         0         <1         0           Sodium         ppm         ASTM D5185m         >20         0         0         0         0           Stilicon         ppm         ASTM D5185m         >20         0         0 </th <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0         0         0           Marganese         ppm         ASTM D5185m         <1         <1         0           Magnesium         ppm         ASTM D5185m         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0           Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         13           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         1         0         <1         0           Sodium         ppm         ASTM D5185m         >20         0         0         0         0           Water         %         ASTM D5185m         >20         0         0.003         0.008           ppm Water         ppm         ASTM D6304         >100         21         30         80.9           FLUID CLEANLINESS	Boron	ppm	ASTM D5185m		0	0	0
Manganese         ppm         ASTM D5185m         <1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium         ppm         ASTM D5185m         0         0         0           Calcium         ppm         ASTM D5185m         <1         1         1           Phosphorus         ppm         ASTM D5185m         0         0         0           Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         13           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1         0           Sodium         ppm         ASTM D5185m         >20         0         0         0           Sodium         ppm         ASTM D6304         >0.01         0.002         0.003         0.008           spm Water         ppm         ASTM D6304         >100         21         30         80.9           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >200         11312         6417         1147      Pa	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium         ppm         ASTM D5185m         <1	Manganese	ppm	ASTM D5185m		<1	<1	0
Phosphorus         ppm         ASTM D5185m         0         0         0         0           Zinc         ppm         ASTM D5185m         50         0         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         0         13           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1	Magnesium	ppm	ASTM D5185m		0	0	0
Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         13           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1         0           Sodium         ppm         ASTM D5185m         >15         0         <1         0           Sodium         ppm         ASTM D5185m         >20         0         0         0           Potassium         ppm         ASTM D5185m         >20         0         0.003         0.008           water         %         ASTM D6304         >0.01         0.002         0.003         0.008           ppm Water         ppm         ASTM D7647         >1000         ▲ 45676         ▲ 30083         4787           Particles >4µm         ASTM D7647         >2500         ▲ 11312         ▲ 6417         1147           Particles >4µm         ASTM D7647         >320         264         144         45           Particles >38µm         ASTM D7647         >20         1	Calcium	ppm	ASTM D5185m		<1	1	1
Sulfur         ppm         ASTM D5185m         50         0         0         13           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1	Phosphorus	ppm	ASTM D5185m		0	0	0
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1         0           Sodium         ppm         ASTM D5185m         1         0         <1         0           Potassium         ppm         ASTM D5185m         >20         0         0         0           Water         %         ASTM D6304         >0.01         0.002         0.003         0.008           ppm         Mastrix D6304         >100         21         30         80.9           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         ▲ 45676         ▲ 30083         4787           Particles >6µm         ASTM D7647         >2500         ▲ 11312         ▲ 6417         1147           Particles >1µm         ASTM D7647         >20         1         0         1           Particles >21µm         ASTM D7647         >20         1         0         1           Particles >38µm         ASTM D7647         >20         1         0         1	Zinc	ppm	ASTM D5185m		0	0	0
Silicon       ppm       ASTM D5185m       >15       0       <1	Sulfur	ppm	ASTM D5185m	50	0	0	13
Sodium         ppm         ASTM D5185m         1         0         <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         0         0         0           Water         %         ASTM D6304         >0.01         0.002         0.003         0.008           ppm Water         ppm         ASTM D6304         >100         21         30         80.9           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         ▲ 45676         ▲ 30083         4787           Particles >6µm         ASTM D7647         >2500         ▲ 11312         ▲ 6417         1147           Particles >14µm         ASTM D7647         >320         264         144         45           Particles >21µm         ASTM D7647         >20         1         0         1           Particles >38µm         ASTM D7647         >20         1         0         1           Particles >71µm         ASTM D7647         >4         0         0         0         0           OIl Cleanliness         ISO 4406 (c)         >20/18/15         23/21/15         22/20/14         19/17/13	Silicon	ppm	ASTM D5185m	>15	0	<1	0
Water       %       ASTM D6304       >0.01       0.002       0.003       0.008         ppm       Water       ppm       ASTM D6304       >100       21       30       80.9         FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >10000       ▲ 45676       ▲ 30083       4787         Particles >6µm       ASTM D7647       >2500       ▲ 11312       ▲ 6417       1147         Particles >14µm       ASTM D7647       >320       264       144       45         Particles >14µm       ASTM D7647       >20       1       0       1         Particles >21µm       ASTM D7647       >20       1       0       1         Particles >38µm       ASTM D7647       >20       1       0       1         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       23/21/15       22/20/14       19/17/13         FLUID DEGRADATION       method       limit/base       current       history1       history2	Sodium	ppm	ASTM D5185m		1	0	<1
ppm Water         ppm         ASTM D6304         >100         21         30         80.9           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         45676         30083         4787           Particles >6µm         ASTM D7647         >2500         11312         6417         1147           Particles >6µm         ASTM D7647         >320         264         144         45           Particles >14µm         ASTM D7647         >80         36         20         10           Particles >21µm         ASTM D7647         >20         1         0         1           Particles >38µm         ASTM D7647         >20         1         0         1           Particles >71µm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         23/21/15         22/20/14         19/17/13           FLUID DEGRADATION         method         Imit/base         current         history1         history2	Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >10000       ▲ 45676       ▲ 30083       4787         Particles >6µm       ASTM D7647       >2500       ▲ 11312       ▲ 6417       1147         Particles >6µm       ASTM D7647       >320       264       144       45         Particles >14µm       ASTM D7647       >320       264       144       45         Particles >21µm       ASTM D7647       >80       36       20       10         Particles >38µm       ASTM D7647       >20       1       0       1         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       23/21/15       22/20/14       19/17/13         FLUID DEGRADATION       method       limit/base       current       history1       history2	Water	%	ASTM D6304	>0.01	0.002	0.003	0.008
Particles >4μm       ASTM D7647       >10000       45676       30083       4787         Particles >6μm       ASTM D7647       >2500       11312       6417       1147         Particles >14μm       ASTM D7647       >320       264       144       45         Particles >14μm       ASTM D7647       >80       36       20       10         Particles >21μm       ASTM D7647       >20       1       0       1         Particles >38μm       ASTM D7647       >20       1       0       1         Particles >71μm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       23/21/15       22/20/14       19/17/13         FLUID DEGRADATION       method       limit/base       current       history1       history2	ppm Water	ppm	ASTM D6304	>100	21	30	80.9
Particles >6µm       ASTM D7647       >2500       ▲ 11312       ▲ 6417       1147         Particles >14µm       ASTM D7647       >320       264       144       45         Particles >21µm       ASTM D7647       >80       36       20       10         Particles >38µm       ASTM D7647       >20       1       0       1         Particles >38µm       ASTM D7647       >20       1       0       1         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       23/21/15       22/20/14       19/17/13         FLUID DEGRADATION       method       limit/base       current       history1       history2	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >14µm         ASTM D7647         >320         264         144         45           Particles >21µm         ASTM D7647         >80         36         20         10           Particles >38µm         ASTM D7647         >20         1         0         1           Particles >38µm         ASTM D7647         >20         1         0         1           Particles >71µm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         ▲ 23/21/15         ▲ 22/20/14         19/17/13           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >4µm		ASTM D7647	>10000	<b>45676</b>	<b>A</b> 30083	4787
Particles >21μm         ASTM D7647         >80         36         20         10           Particles >38μm         ASTM D7647         >20         1         0         1           Particles >38μm         ASTM D7647         >20         1         0         1           Particles >71μm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         23/21/15         22/20/14         19/17/13           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >6µm		ASTM D7647	>2500	<u> </u>	<b>6</b> 417	1147
Particles >38μm         ASTM D7647         >20         1         0         1           Particles >71μm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         23/21/15         22/20/14         19/17/13           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >14µm		ASTM D7647	>320	264	144	45
Particles >71μm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         23/21/15         22/20/14         19/17/13           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >21µm		ASTM D7647	>80	36	20	10
Oil Cleanliness         ISO 4406 (c)         >20/18/15         23/21/15         22/20/14         19/17/13           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >38µm		ASTM D7647	>20	1	0	1
Oil CleanlinessISO 4406 (c)>20/18/1523/21/1522/20/1419/17/13FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Particles >71µm		ASTM D7647	>4	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>23/21/15</b>	▲ 22/20/14	19/17/13
Acid Number (AN)         mg KOH/g         ASTM D974         0.005         0.013         0.012         0.013	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.013	0.012	0.013

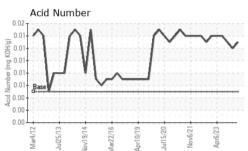
Contact/Location: RUSSEL SCOTT - TYSVER Page 1 of 2

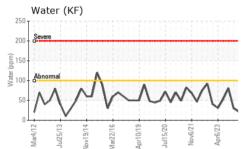


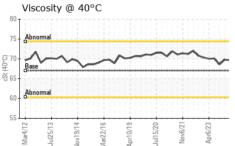
## **OIL ANALYSIS REPORT**





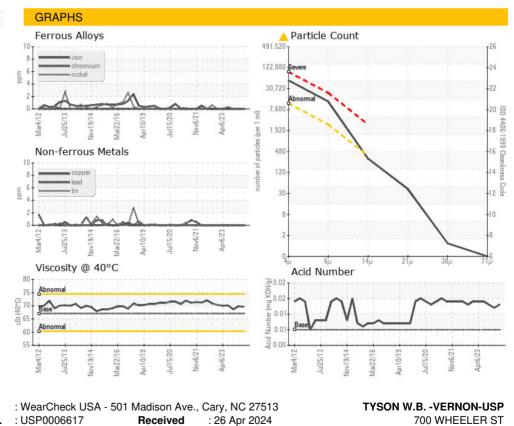






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67	69.6	69.8	68.6
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						A MARK

Bottom



: 30 Apr 2024

: 30 Apr 2024 - Doug Bogart



Laboratory : WearCheo Sample No. : USP0006 Lab Number : 06161563 Unique Number : 10996986 Test Package : IND 2

Certificate 12367 Test Package : IND 2 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)

Tested

Diagnosed

T: (940)553-2747 F: (940)552-2196

Contact: RUSSEL SCOTT

VERNON, TX

US 76384

Report Id: TYSVER [WUSCAR] 06161563 (Generated: 05/04/2024 05:37:59) Rev: 1

Contact/Location: RUSSEL SCOTT - TYSVER