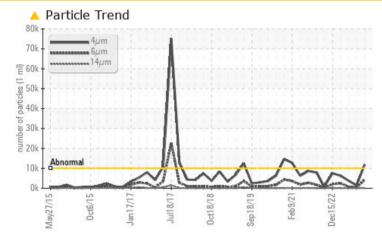


## **PROBLEM SUMMARY**

### Machine Id **TYSVIC 12HS (S/N 00487-008-1)** Component

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

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ATTENTION	NORMAL	NORMAL				
Particles >4µm	ASTM D7647	>10000	<u> </u>	1436	3760				
Particles >6µm	ASTM D7647	>2500	<b>4315</b>	336	753				
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<u> </u>	18/16/11	19/17/12				

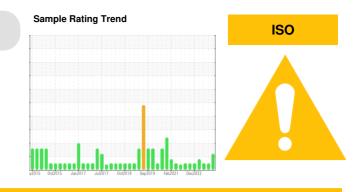
Customer Id: TYSVIC01 Sample No.: USP0003479 Lab Number: 06007018 Test Package: IND 2



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 <u>customerservice@wearcheck.com</u>



### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

### HISTORICAL DIAGNOSIS

### 31 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.



view report

#### 29 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 Mar 2023 Diag: Doug Bogart



Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate 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 INFORMATION method

# Sample Rating Trend ISO ISO

current

history1

history2

# Machine Id TYSVIC 12HS (S/N 00487-008-1) Component Component

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

### DIAGNOSIS

### A 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.

Machine Age         hrs         Client Info         0         0         0           Oil Age         hrs         Client Info         0         0         0         0           Sample Status         Immit/base         current         history1         Nicker/N/A           WEAR METALS         method         limit/base         current         history1         Nickory2           Iron         ppm         ASTM D5185m         >8         0         0         <1           Nickel         ppm         ASTM D5185m         >2         <1         0         <1           Titanium         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         <1         <1           Cadmium         ppm         ASTM D5185m         >2         0         <1         <1           Cadmium         ppm         ASTM D5185m         >4         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Mangaeese         ppm         ASTM D5185m         0         0         <1         0	Sample Number		Client Info		USP0003479	USP0000332	USP243289
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         0         0         0           Chromium         ppm         ASTM D5185m         >2         <1         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Aduminum         ppm         ASTM D5185m         >2         0         0         0           Aduminum         ppm         ASTM D5185m         >2         0         0         0           Aduminum         ppm         ASTM D5185m         >4         0         0         0           Cadmium         ppm         ASTM D5185m         >4         0         0         0           Adminum         ppm         ASTM D5185m         >0         0         0         0	Sample Date		Client Info		13 Nov 2023	31 Aug 2023	29 May 2023
Ori Changed Sample Status         Client Info         N/A         N/A         N/A         N/A           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM DS185m         >8         0         0         0           Chromium         ppm         ASTM DS185m         >2         <1	Machine Age	hrs	Client Info		0	0	0
Sample Status         method         Imit/base         current         NoRMAL         NORMAL           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >8         0         0         <1           Nickel         ppm         ASTM D5185m         >2         <1         0         <1           Nickel         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Auminum         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >2         0         0         0           Cadmium         ppm         ASTM D5185m         S0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0	Oil Age	hrs	Client Info		0	0	0
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5165m         >2         <1         0         <1           Nickel         ppm         ASTM D5165m         >2         <1         0         <1           Nickel         ppm         ASTM D5165m         >2         0         0         <1           Silver         ppm         ASTM D5165m         >2         0         0         0           Aluminum         ppm         ASTM D5165m         >3         0         0         0           Lead         ppm         ASTM D5165m         >3         0         0         0           Yanadium         ppm         ASTM D5165m         0         0         0         0           Cadmium         ppm         ASTM D5165m         0         0         0         0           Barium         ppm         ASTM D5165m         0         0         0         0           Maganese         ppm         ASTM D5165m         0         0         0         1           Maganese         ppm         ASTM D5165m         0         0         0         0	Oil Changed		Client Info		N/A	N/A	N/A
Iron         ppm         ASTM D5185m         >8         0         0         0           Chromium         ppm         ASTM D5185m         >2         <1         0         <1           Nickel         ppm         ASTM D5185m         0         0         <1           Titanium         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >2         0         <1         <1           Copper         ppm         ASTM D5185m         >8         0         0         0         0           Yanadium         ppm         ASTM D5185m         >8         0         0         0         0           Admium         ppm         ASTM D5185m         0         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0         0           Magaese         ppm         ASTM D5185m         0         0         0         0         0           Sufur         ppm         ASTM D5185m	Sample Status				ATTENTION	NORMAL	NORMAL
Chromium         ppm         ASTM D5185m         >2         <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185m         0         0         <1	Iron	ppm	ASTM D5185m	>8	0	0	0
Titanium         ppm         ASTM D5185m         <1	Chromium	ppm	ASTM D5185m	>2	<1	0	<1
Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >3         0         0         0           Lead         ppm         ASTM D5185m         >2         0         <1         <1           Copper         ppm         ASTM D5185m         >2         0         0         0           Vanadium         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         1           Zinc         ppm         ASTM D5185m         0         0         0         1           Zinc         ppm         ASTM D5185m         0         0         0         1	Nickel	ppm	ASTM D5185m		0	0	<1
Aluminum         ppm         ASTM D5185m         >3         0         0         0           Lead         ppm         ASTM D5185m         >2         0         <1         <1           Copper         ppm         ASTM D5185m         >8         0         0         0           Vanadium         ppm         ASTM D5185m         >4         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Magnesee         ppm         ASTM D5185m         0         0         0         1           Phosphorus         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         0         1         1           Zinc         ppm         ASTM D5185m         0         0         0	Titanium	ppm	ASTM D5185m		<1	0	0
Lead         ppm         ASTM D5185m         >2         0         <1	Silver	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           Marganese         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         50         0         0         0           Sulfur         ppm         ASTM D5185m         20         1         <1         21 <th>Aluminum</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;3</th> <th>0</th> <th>0</th> <th>0</th>	Aluminum	ppm	ASTM D5185m	>3	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           Magnese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Phosphorus         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Lead	ppm	ASTM D5185m	>2	0	<1	<1
Vanadium         ppm         ASTM D5185m         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Magnese         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         0           Sulfur         ppm         ASTM D5185m         >15<<<1	Copper	ppm	ASTM D5185m	>8	0	0	0
Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           CASTM D5185m         0         0         0         0         0         0           CASTM D5185m         0         0         0         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         0         0           Sulfur         ppm         ASTM D5185m         >15         <1	Tin	ppm	ASTM D5185m	>4	0	0	0
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         <1           Calcium         ppm         ASTM D5185m         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0           Zinc         ppm         ASTM D5185m         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         <1           Sodium         ppm         ASTM D5185m         50         0         0         <1           Sodium         ppm         ASTM D5185m         0         0         <1         2           Sodium         ppm         ASTM D5185m         20         <1         <1         2           Vater         %         ASTM D6304         >0.01         0.005	Vanadium	ppm	ASTM D5185m		0	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         <1         0           Magnesium         ppm         ASTM D5185m         <1         <1         0           Calcium         ppm         ASTM D5185m         <0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Zinc         ppm         ASTM D5185m         50         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         <1           Sodium         ppm         ASTM D5185m         >15         <1         <1         <1         <1           Sodium         ppm         ASTM D5185m         >20         <1         <1         2           Water         %         ASTM D5185m         >20         <1         <1         2           Particles >4µm         ASTM D7647	Cadmium	ppm	ASTM D5185m		0	0	0
Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         <1           Magnese         ppm         ASTM D5185m         <1         <1         0         0           Magnesium         ppm         ASTM D5185m         <1         <1         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Zinc         ppm         ASTM D5185m         50         0         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         0         1           Solicon         ppm         ASTM D5185m         >15         <1         <1         <1         <1           Sodium         ppm         ASTM D5185m         >15         <1         <1         <1         <1           Sodium         ppm         ASTM D5185m         >20         <1         <1         2         <1         <1         <1         <10	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         <1         <1         0         <1           Magnesium         ppm         ASTM D5185m         <1         <1         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         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         <11         <1           Sodium         ppm         ASTM D5185m         50         0         0         <11         <1           Potassium         ppm         ASTM D5185m         >20         <1         <1         2           Water         %         ASTM D6304         >0.01         0.002         0.005         0.007           ppm         ASTM D7647         >10000	Boron	ppm	ASTM D5185m		0	0	0
Marganese         ppm         ASTM D5185m         0         0         <1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium       ppm       ASTM D5185m       <1       <1       0         Calcium       ppm       ASTM D5185m       0       0       0         Phosphorus       ppm       ASTM D5185m       0       0       0         Zinc       ppm       ASTM D5185m       0       0       0         Sulfur       ppm       ASTM D5185m       50       0       0       0         CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >15       <1       <1       <1         Sodium       ppm       ASTM D5185m       >20       <1       <1       <1         Potassium       ppm       ASTM D6304       >0.01       0.002       0.005       0.007         ppm Water       ppm       ASTM D6304       >100       25.0       50.4       71.6         FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >10000       11933       1436       3760         Particles >6µm       ASTM D7647       >2500       4315       336       753      <	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium         ppm         ASTM D5185m         0         0         0         0           Phosphorus         ppm         ASTM D5185m         0         0         0         0           Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         0           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         <1         <1         <1           Sodium         ppm         ASTM D5185m         >15         <1         <1         <1         <1           Potassium         ppm         ASTM D5185m         >20         <1         <1         2         <1         <1         2         <1         <1         2         <1         <1         2         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <	Manganese	ppm	ASTM D5185m		0	0	<1
Phosphorus         ppm         ASTM D5185m         0         0         1           Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         0         0           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         <1	Magnesium	ppm	ASTM D5185m		<1	<1	0
Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         50         0         0         0           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         <1         <1         <1           Sodium         ppm         ASTM D5185m         >20         <1         <1         2           Vater         %         ASTM D5185m         >20         <1         <1         2           Water         %         ASTM D6304         >0.01         0.002         0.005         0.007           ppm Water         ppm         ASTM D6304         >100         25.0         50.4         71.6           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         11933         1436         3760           Particles >6µm         ASTM D7647         >2500         4315         336         753           Particles >14µm         ASTM D7647         >20         0         1 <th>Calcium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Calcium	ppm	ASTM D5185m		0	0	0
Sulfur         ppm         ASTM D5185m         50         0         0         0           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         <1         <1         <1           Sodium         ppm         ASTM D5185m         >15         <1         <1         <1           Potassium         ppm         ASTM D5185m         >20         <1         <1         2           Water         %         ASTM D6304         >0.01         0.002         0.005         0.007           ppm Water         ppm         ASTM D6304         >100         25.0         50.4         71.6           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         11933         1436         3760           Particles >6µm         ASTM D7647         >2500         4315         336         753           Particles >1µm         ASTM D7647         >320         194         17         33           Particles >38µm         ASTM D7647         >20         0         1 </th <th>Phosphorus</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>0</th> <th>1</th>	Phosphorus	ppm	ASTM D5185m		0	0	1
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>15<1<1<1SodiumppmASTM D5185m>00<1PotassiumppmASTM D5185m>20<1<12Water%ASTM D5185m>20<1<12Water%ASTM D6304>0.010.0020.0050.007ppm WaterppmASTM D6304>10025.050.471.6FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4µmASTM D7647>100001193314363760Particles >6µmASTM D7647>25004315336753Particles >6µmASTM D7647>3201941733Particles >1µmASTM D7647>20010Particles >38µmASTM D7647>20010Particles >71µmASTM D7647>4000Oil CleanlinessISO 4406 (c)>20/18/1521/19/1518/16/1119/17/12FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Zinc	ppm	ASTM D5185m		0	0	0
Silicon       ppm       ASTM D5185m       >15       <1       <1       <1         Sodium       ppm       ASTM D5185m       0       0       <1         Potassium       ppm       ASTM D5185m       >20       <1       <1       2         Water       %       ASTM D6304       >0.01       0.002       0.005       0.007         ppm Water       ppm       ASTM D6304       >100       25.0       50.4       71.6         FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >10000       11933       1436       3760         Particles >6µm       ASTM D7647       >2500       4315       336       753         Particles >6µm       ASTM D7647       >320       194       17       33         Particles >1µm       ASTM D7647       >20       0       1       0         Particles >38µm       ASTM D7647       >20       0       1       0         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >201/8/15       21/19/15       18/16/11       19/17/12	Sulfur	ppm	ASTM D5185m	50	0	0	0
Sodium         ppm         ASTM D5185m         0         0         <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         <1	Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Water         %         ASTM D6304         >0.01         0.002         0.005         0.007           ppm Water         ppm         ASTM D6304         >100         25.0         50.4         71.6           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         11933         1436         3760           Particles >6µm         ASTM D7647         >2500         ▲ 4315         336         753           Particles >14µm         ASTM D7647         >320         194         17         33           Particles >21µm         ASTM D7647         >20         0         1         0           Particles >38µm         ASTM D7647         >20         0         1         0           Particles >71µm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         21/19/15         18/16/11         19/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history2	Sodium	ppm	ASTM D5185m		0	0	
ppm Water         ppm         ASTM D6304         >100         25.0         50.4         71.6           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         11933         1436         3760           Particles >6µm         ASTM D7647         >2500         4315         336         753           Particles >14µm         ASTM D7647         >200         194         17         33           Particles >14µm         ASTM D7647         >20         0         1         0           Particles >38µm         ASTM D7647         >20         0         1         0           Particles >71µm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         21/19/15         18/16/11         19/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history2	Potassium	ppm	ASTM D5185m	>20	<1	<1	2
FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >10000       ▲ 11933       1436       3760         Particles >6µm       ASTM D7647       >2500       ▲ 4315       336       753         Particles >6µm       ASTM D7647       >320       194       17       33         Particles >14µm       ASTM D7647       >80       37       5       7         Particles >21µm       ASTM D7647       >80       37       5       7         Particles >38µm       ASTM D7647       >20       0       1       0         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       21/19/15       18/16/11       19/17/12         FLUID DEGRADATION       method       limit/base       current       history1       history2	Water	%	ASTM D6304	>0.01	0.002	0.005	0.007
Particles >4µm       ASTM D7647       >10000       ▲ 11933       1436       3760         Particles >6µm       ASTM D7647       >2500       ▲ 4315       336       753         Particles >14µm       ASTM D7647       >320       194       17       33         Particles >14µm       ASTM D7647       >80       37       5       7         Particles >21µm       ASTM D7647       >20       0       1       0         Particles >38µm       ASTM D7647       >20       0       1       0         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       21/19/15       18/16/11       19/17/12         FLUID DEGRADATION       method       limit/base       current       history1       history2	ppm Water	ppm	ASTM D6304	>100	25.0	50.4	71.6
Particles >6µm         ASTM D7647         >2500         ▲ 4315         336         753           Particles >14µm         ASTM D7647         >320         194         17         33           Particles >21µm         ASTM D7647         >80         37         5         7           Particles >38µm         ASTM D7647         >20         0         1         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         21/19/15         18/16/11         19/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm       ASTM D7647       >320       194       17       33         Particles >21µm       ASTM D7647       >80       37       5       7         Particles >38µm       ASTM D7647       >20       0       1       0         Particles >38µm       ASTM D7647       >20       0       1       0         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       21/19/15       18/16/11       19/17/12         FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >4µm		ASTM D7647	>10000	🔺 11933	1436	3760
Particles >21μm         ASTM D7647         >80         37         5         7           Particles >38μm         ASTM D7647         >20         0         1         0           Particles >37μm         ASTM D7647         >4         0         0         0           Particles >71μm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         21/19/15         18/16/11         19/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >6µm		ASTM D7647	>2500	<u> </u>	336	753
Particles >38μm         ASTM D7647         >20         0         1         0           Particles >71μm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         21/19/15         18/16/11         19/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >14µm		ASTM D7647	>320	194	17	33
Particles >71μm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         21/19/15         18/16/11         19/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >21µm		ASTM D7647	>80	37	5	7
Oil Cleanliness         ISO 4406 (c)         >20/18/15         21/19/15         18/16/11         19/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >38µm		ASTM D7647	>20	0	1	0
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>4	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>A</b> 21/19/15	18/16/11	19/17/12
Acid Number (AN) mg KOH/g ASTM D974 0.005 0.013 0.014 0.015	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.013	0.014	0.015

limit/base

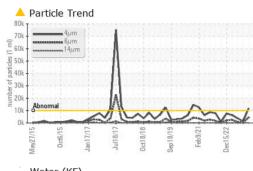
Contact/Location: RICK DUNN - TYSVIC01

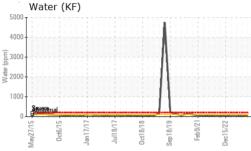


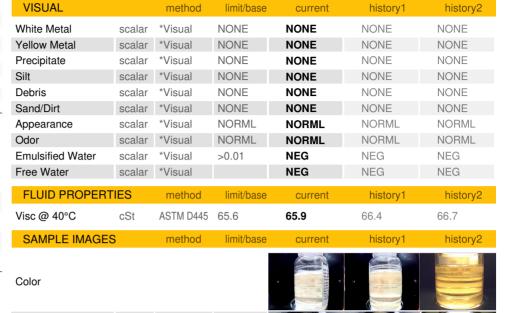
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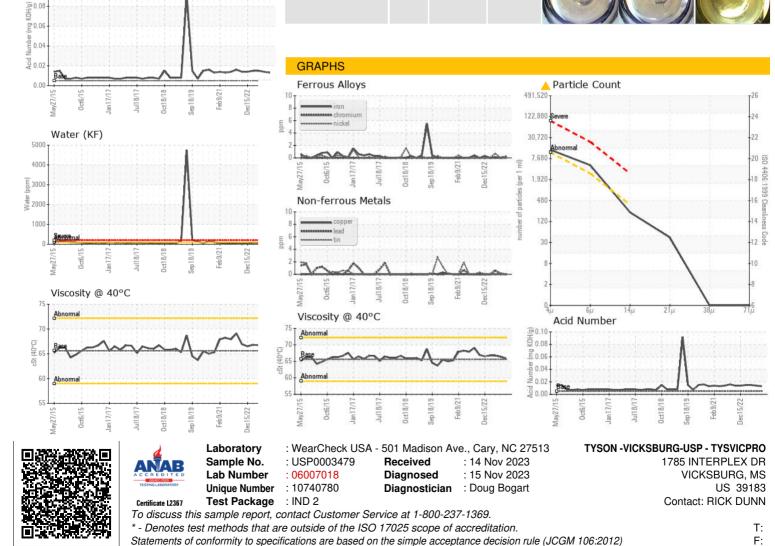
# **OIL ANALYSIS REPORT**







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