

# **OIL ANALYSIS REPORT**

## Area COMP RM 1 FRICK C-5 (S/N D2009VFMTHAA03)

Component Refrigeration Compressor

STELLAR 717 HT (--- 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.

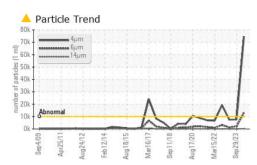
Sample Number         Client Info         USP0008132         USP0001671         USP2033           Sample Date         in         Client Info         28 Mar 2024         29 Sep 2023         16 Mar 202           Machine Age         hrs         Client Info         0         0         124379           Oil Age         hrs         Client Info         0         0         0         0           Oil Changed         Client Info         N/A         N/A         N/A         N/A         N/A           Sample Status         Imethod         Imit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >2         0         0         0           Aduminum         ppm         ASTM D5185m         >2         0         0         0           Aduminum         ppm         ASTM D5185m         >4         0         0         0           Aduminum         ppm         ASTM D5185m         0         0         0         0							
Sample Date         Client Info         28 Mar 2024         29 Sep 2023         16 Mar 202           Machine Age         hrs         Client Info         131710         128070         124379           Oil Age         hrs         Client Info         0         0         0         0           Oil Changed         Client Info         NA         N/A         N/A         N/A           Sample Status         Client Info         NA         N/A         N/A         N/A           WEAR METALS         method         imit/base         current         history1         history1           Iron         ppm         ASTM 05165m         >2         0         0         0           Nickel         ppm         ASTM 05165m         >2         0         0         0           Silver         ppm         ASTM 05165m         >2         0         0         0           Copper         ppm         ASTM 05165m         >2         0         0         0           Vanadium         ppm         ASTM 05165m         >4         0         0         0           Addimium         ppm         ASTM 05165m         0         0         0         0	SAMPLE INFORM	<b>NATION</b>	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         131710         128070         124379           Oil Age         hrs         Client Info         0         0         0         0           Oil Changed         Client Info         N/A         N/A         N/A         N/A           Sample Status         Client Info         N/A         ABNORMAL         NORMAL         NORMAL           WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >2         0         0         0           Cadmium         ppm         ASTM D5185m         >4         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0<	Sample Number		Client Info		USP0008132	USP0001671	USP250531
Oil Age         hrs         Client Info         0         0         0           Oil Changed         Client Info         NA         NA         NA         NA           Sample Status         Image         Client Info         NA         NORMAL         NORMAL           WEAR METALS         method         Imit/base         current         history1         history1           Kromium         ppm         ASTM 0585m         2         0         0         0           Nickel         ppm         ASTM 0585m         2         0         0         0           Silver         ppm         ASTM 0585m         >2         0         0         0           Silver         ppm         ASTM 0585m         >3         0         0         0           Capper         ppm         ASTM 0585m         >4         0         0         0           Cadmium         ppm         ASTM 0585m         0         0         0         0           Barium         ppm         ASTM 0585m         0         0         0         0           Molybdenum         ppm         ASTM 0585m         0         0         0         0           Cadmium	Sample Date		Client Info		28 Mar 2024	29 Sep 2023	16 Mar 2023
Oil Changed         Client Info         N/A         N/A         N/A         N/A         N/A           Sample Status         method         limit/base         current         history1         history1           WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >8         9         11         8           Chromium         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Bilver         ppm         ASTM D5185m         >3         0         0         0           Copper         ppm         ASTM D5185m         >3         0         0         0           Cadmium         ppm         ASTM D5185m         >4         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Maganesium         ppm         ASTM D5185m         0         0         0	Machine Age	hrs	Client Info		131710	128070	124379
Sample Status         Image         ABNORMAL         NORMAL         NORMAL           WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >8         9         11         8           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           Copper         ppm         ASTM D5185m         >2         0         0         0           Cadmium         ppm         ASTM D5185m         >4         0         0         0           Admatum         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Baron         ppm         ASTM D5185m         0         0         0         0	Oil Age	hrs	Client Info		0	0	0
WEAR METALS         method         limit/base         current         history1         history1           from         ppm         ASTM 05185m         >8         9         11         8           Chromium         ppm         ASTM 05185m         >2         0         0         0           Nickel         ppm         ASTM 05185m         >2         0         0         0         0           Sliver         ppm         ASTM 05185m         >2         0         0         0         0           Aduminum         ppm         ASTM 05185m         >2         0         0         0         0           Lead         ppm         ASTM 05185m         >2         0         0         0         0           Vanadium         ppm         ASTM 05185m         2         0         0         0         0           Cadmium         ppm         ASTM 05185m         0         0         0         0         0           Boron         ppm         ASTM 05185m         0         0         0         0         0           Magnaese         ppm         ASTM 05185m         0         0         0         0         0         0	Oil Changed		Client Info		N/A	N/A	N/A
Iron         ppm         ASTM D5185m         >8         9         11         8           Chromium         ppm         ASTM D5185m         >2         0         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           Lead         ppm         ASTM D5185m         >2         0         0         0           Vanadium         ppm         ASTM D5185m         >2         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           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0	Sample Status				ABNORMAL	NORMAL	NORMAL
ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         0         <1         <1           Titanium         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Aduminum         ppm         ASTM D5185m         >2         0         0         0           Lead         ppm         ASTM D5185m         >2         0         0         0           Vanadium         ppm         ASTM D5185m         >8         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Sulfur	WEAR METALS		method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185m         0         <1         <1           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         >2         0         0         0           Vanadium         ppm         ASTM D5185m         >4         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Iron	ppm	ASTM D5185m	>8	9	11	8
Titanium         ppm         ASTM D5185m         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >3         0         0         0           Lead         ppm         ASTM D5185m         >8         0         0         <1	Chromium	ppm	ASTM D5185m	>2	0	0	0
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         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           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         0         1         <1	Nickel	ppm	ASTM D5185m		0	<1	<1
Atuminum         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           Vanadium         ppm         ASTM D5185m         >4         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         history           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         1         <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >8         0         0         <1	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper         ppm         ASTM D5185m         >8         0         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         history1           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         0         1         <1	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         history           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Maganese         ppm         ASTM D5185m         0         0         0         0           Vanganese         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         1         <1	_ead	ppm	ASTM D5185m	>2	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         history           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           Magnesium         ppm         ASTM D5185m         0         1         <1	Copper	ppm	ASTM D5185m	>8	0	0	<1
Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Magnese         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         1         <1           Calcium         ppm         ASTM D5185m         0         1         <1           Zalcium         ppm         ASTM D5185m         0         1         <1           Zinc         ppm         ASTM D5185m         292         289         329           CONTAMINANTS         method         limit/base         current         history1         history1           Soliton         ppm         ASTM D5185m         >20         0         <1         <1           Sodium         ppm         ASTM D5185m <td>Tin</td> <td>ppm</td> <td>ASTM D5185m</td> <td>&gt;4</td> <th>0</th> <td>0</td> <td>0</td>	Tin	ppm	ASTM D5185m	>4	0	0	0
ADDITIVES         method         limit/base         current         history1         history           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Malganese         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         1         <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron         ppm         ASTM D5185m         0         0         0           Barium         ppm         ASTM D5185m         0         0         0           Malganese         ppm         ASTM D5185m         0         0         0           Magnese         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0           Calcium         ppm         ASTM D5185m         0         1         <1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium         ppm         ASTM D5185m         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0           Maganese         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         1         <1	ADDITIVES		method	limit/base	current	history1	history2
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         1         <1	Boron	ppm	ASTM D5185m		0	0	0
Manganese         ppm         ASTM D5185m         <1         0         <1           Magnesium         ppm         ASTM D5185m         0         0         0           Calcium         ppm         ASTM D5185m         0         1         <1	Barium	ppm	ASTM D5185m		0	0	0
Manganese         ppm         ASTM D5185m         <1         0         <1           Magnesium         ppm         ASTM D5185m         0         0         0           Calcium         ppm         ASTM D5185m         0         1         <1	Volybdenum	ppm	ASTM D5185m		0	0	0
Magnesium         ppm         ASTM D5185m         0         0         0           Calcium         ppm         ASTM D5185m         0         1         <1			ASTM D5185m		<1	0	<1
Phosphorus         ppm         ASTM D5185m         0         1         <1           Zinc         ppm         ASTM D5185m         0         5         7           Sulfur         ppm         ASTM D5185m         292         289         329           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >15         <1         1         <1           Sodium         ppm         ASTM D5185m         >15         <1         0         0           Sodium         ppm         ASTM D5185m         >20         0         <1         <1         <1           Sodium         ppm         ASTM D5185m         >20         0         <1         <1         <1           Sodium         ppm         ASTM D5185m         >20         0         <1         <1         <1           Water         %         ASTM D5185m         >20         0         <11         <1           Patricles >4µm         ASTM D5044         >0.01         0.002         0.001         0.003           Patricles >4µm         ASTM D7647         >200         13299         2162	Vagnesium	ppm	ASTM D5185m		0	0	0
Zinc       ppm       ASTM D5185m       0       5       7         Sulfur       ppm       ASTM D5185m       292       289       329         CONTAMINANTS       method       limit/base       current       history1       history1         Silicon       ppm       ASTM D5185m       >15       <1       1       <1         Sodium       ppm       ASTM D5185m       >15       <1       0       0         Potassium       ppm       ASTM D5185m       >20       0       <1       <1       <1         Water       %       ASTM D6304       >0.01       0.002       0.001       0.003         opm Water       ppm       ASTM D6304       >100       17       2.3       30.0         FLUID CLEANLINESS       method       limit/base       current       history1       history1         Particles >4µm       ASTM D7647       >10000       74585       7612       7456         Particles >4µm       ASTM D7647       >2500       13299       2162       1234         Particles >1µm       ASTM D7647       >320       234       35       5         Particles >21µm       ASTM D7647       20       1       0	Calcium	ppm	ASTM D5185m		0	0	0
Zinc         ppm         ASTM D5185m         0         5         7           Sulfur         ppm         ASTM D5185m         292         289         329           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >15         <1	Phosphorus	ppm	ASTM D5185m		0	1	<1
CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >15         <1			ASTM D5185m		0	5	7
Silicon       ppm       ASTM D5185m       >15       <1       1       <1         Sodium       ppm       ASTM D5185m       >15       <1       0       0         Potassium       ppm       ASTM D5185m       >20       0       <1       <1       <1         Water       %       ASTM D5185m       >20       0       <1       <1       <1         Water       %       ASTM D50304       >0.01       0.002       0.001       0.003         opm       ASTM D6304       >0.01       0.002       0.001       0.003         opm Water       ppm       ASTM D6304       >100       17       2.3       30.0         FLUID CLEANLINESS       method       limit/base       current       history1       history1         Particles >4µm       ASTM D7647       >2500       13299       2162       1234         Particles >6µm       ASTM D7647       >320       234       35       5         Particles >14µm       ASTM D7647       >20       1       0       0         Particles >38µm       ASTM D7647       >20       1       0       0         Particles >71µm       ASTM D7647       >4       0 <th< td=""><td>Sulfur</td><td>ppm</td><td>ASTM D5185m</td><td></td><th>292</th><td>289</td><td>329</td></th<>	Sulfur	ppm	ASTM D5185m		292	289	329
Sodium         ppm         ASTM D5185m         <1	CONTAMINANTS	5	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         0         <1         <1           Water         %         ASTM D6304         >0.01         0.002         0.001         0.003           opm Water         ppm         ASTM D6304         >100         17         2.3         30.0           FLUID CLEANLINESS         method         limit/base         current         history1         history           Particles >4µm         ASTM D7647         >10000         74585         7612         7456           Particles >6µm         ASTM D7647         >2500         13299         2162         1234           Particles >14µm         ASTM D7647         >320         234         35         27           Particles >14µm         ASTM D7647         >20         1         0         0           Particles >21µm         ASTM D7647         >20         1         0         0           Particles >38µm         ASTM D7647         >20         1         0         0           Particles >71µm         ASTM D7647         >4         0         0         0           Oll Cleanliness         ISO 4406 (c)         >20/18/15         23/21/15         20/18/12         20/17/12	Silicon	ppm	ASTM D5185m	>15	<1	1	<1
Water         %         ASTM D6304         >0.01         0.002         0.001         0.003           opm Water         ppm         ASTM D6304         >100         17         2.3         30.0           FLUID CLEANLINESS         method         limit/base         current         history1         history           Particles >4µm         ASTM D7647         >1000         74585         7612         7456           Particles >6µm         ASTM D7647         >2500         13299         2162         1234           Particles >14µm         ASTM D7647         >320         234         35         27           Particles >21µm         ASTM D7647         >20         1         0         0           Particles >38µm         ASTM D7647         >20         1         0         0           Particles >71µm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         23/21/15         20/18/12         20/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history1	Sodium	ppm	ASTM D5185m		<1	0	0
oppm Water         ppm         ASTM D6304         >100         17         2.3         30.0           FLUID CLEANLINESS         method         limit/base         current         history1         history1           Particles >4µm         ASTM D7647         >10000         74585         7612         7456           Particles >6µm         ASTM D7647         >2500         13299         2162         1234           Particles >14µm         ASTM D7647         >320         234         35         27           Particles >14µm         ASTM D7647         >80         33         5         5           Particles >21µm         ASTM D7647         >20         1         0         0           Particles >38µm         ASTM D7647         >20         1         0         0           Particles >71µm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         23/21/15         20/18/12         20/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history1	Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID CLEANLINESS       method       limit/base       current       history1       history1         Particles >4µm       ASTM D7647       >10000       ▲       74585       7612       7456         Particles >6µm       ASTM D7647       >2500       ▲       13299       2162       1234         Particles >14µm       ASTM D7647       >320       234       35       27         Particles >14µm       ASTM D7647       >80       33       5       5         Particles >21µm       ASTM D7647       >20       1       0       0         Particles >38µm       ASTM D7647       >20       1       0       0         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       23/21/15       20/18/12       20/17/12         FLUID DEGRADATION       method       limit/base       current       history1       history1	Water	%	ASTM D6304	>0.01	0.002	0.001	0.003
Particles >4µm       ASTM D7647       >10000       ▲ 74585       7612       7456         Particles >6µm       ASTM D7647       >2500       ▲ 13299       2162       1234         Particles >14µm       ASTM D7647       >320       234       35       27         Particles >21µm       ASTM D7647       >80       33       5       5         Particles >21µm       ASTM D7647       >20       1       0       0         Particles >38µm       ASTM D7647       >20       1       0       0         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       23/21/15       20/18/12       20/17/12         FLUID DEGRADATION       method       limit/base       current       history1       history1	opm Water	ppm	ASTM D6304	>100	17	2.3	30.0
Particles >6µm       ASTM D7647       >2500       ▲ 13299       2162       1234         Particles >14µm       ASTM D7647       >320       234       35       27         Particles >21µm       ASTM D7647       >80       33       5       5         Particles >38µm       ASTM D7647       >20       1       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       23/21/15       20/18/12       20/17/12         FLUID DEGRADATION       method       limit/base       current       history1       history1	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm       ASTM D7647       >320       234       35       27         Particles >21µm       ASTM D7647       >80       33       5       5         Particles >38µm       ASTM D7647       >20       1       0       0         Particles >38µm       ASTM D7647       >20       1       0       0         Particles >71µm       ASTM D7647       >4       0       0       0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       23/21/15       20/18/12       20/17/12         FLUID DEGRADATION       method       limit/base       current       history1       history1	Particles >4µm		ASTM D7647	>10000	<b>A</b> 74585	7612	7456
Particles >21μm         ASTM D7647         >80         33         5         5           Particles >38μm         ASTM D7647         >20         1         0         0           Particles >38μm         ASTM D7647         >20         1         0         0           Particles >71μm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         23/21/15         20/18/12         20/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history1	Particles >6µm		ASTM D7647	>2500	🔺 13299	2162	1234
Particles >38μm         ASTM D7647         >20         1         0         0           Particles >71μm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         23/21/15         20/18/12         20/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history	Particles >14µm		ASTM D7647	>320	234	35	27
Particles >71μm         ASTM D7647         >4         0         0         0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         ▲ 23/21/15         20/18/12         20/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history1	Particles >21µm		ASTM D7647	>80	33	5	5
Dil Cleanliness       ISO 4406 (c)       >20/18/15       ▲ 23/21/15       20/18/12       20/17/12         FLUID DEGRADATION       method       limit/base       current       history1       history1	Particles >38µm		ASTM D7647	>20	1	0	0
Dil CleanlinessISO 4406 (c)>20/18/1523/21/1520/18/1220/17/12FLUID DEGRADATIONmethodlimit/basecurrenthistory1history1			ASTM D7647	>4	0	0	0
						20/18/12	20/17/12
	FLUID DEGRADA		method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974		0.028	0.013	0.014

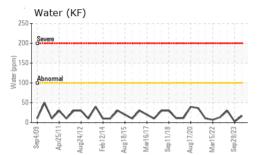
Sample Rating Trend

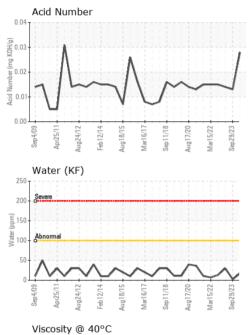


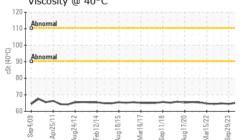


# **OIL ANALYSIS REPORT**







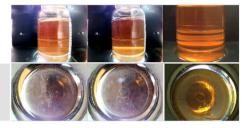


Sj

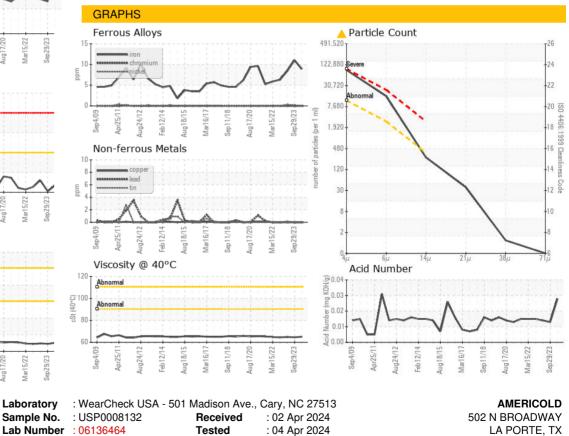
同約

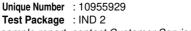
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
I LOID I HOI LITI		method	IIIIII/base	Current	mistory	Thistoryz
Visc @ 40°C	cSt	ASTM D445		65.1	64.5	64.8
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom





Tested : 04 Apr 2024 Diagnosed : 04 Apr 2024 - Doug Bogart

LA PORTE, TX US 77571 Contact: TIM OROS tim.oros@americold.com T: (281)924-5367 F: (281)471-7980

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)

Report Id: VERLAP [WUSCAR] 06136464 (Generated: 04/05/2024 20:49:05) Rev: 1

Certificate 12367

Contact/Location: TIM OROS - VERLAP

Page 2 of 2