

# **OIL ANALYSIS REPORT**

## Sample Rating Trend



# Machine Id 10241N03408561

#### Component Refrigeration Compressor Fluid FRICK COMPRESSOR OIL #3 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

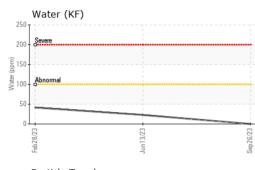
### Fluid Condition

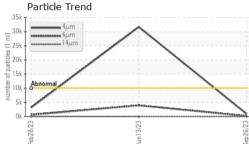
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

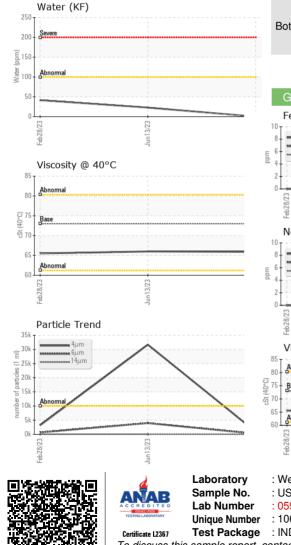
SAMPLE INFORMATION     method     limit/base     current     history1     history2       Sample Number     Client Info     26 Sep 2023     13 Jun 2023     28 Feb 2023       Machine Age     hrs     Client Info     0     0     0       Oll Changed     Client Info     0     0     0     0       Oil Changed     Client Info     N/A     N/A     N/A     N/A       Sample Status     Imit/base     current     history1     history2       Iron     ppm     ASTM 05185n     >8     0     <1     0       Nickel     ppm     ASTM 05185n     >2     0     0     0       Silver     ppm     ASTM 05185n     >2     0     0     0       Capper     ppm     ASTM 05185n     >2     0     0     0       Cadmium     ppm     ASTM 05185n     >2     0     0     0       Cadmium     ppm     ASTM 05185n     2     0     0     0       Cadmium     ppm<			Feb	2023	Jun2023 Sep20	23	
Sample Date     Client Info     26 Sep 2023     13 Jun 2023     28 Feb 2023       Machine Age     hrs     Client Info     0     0     0       Oil Age     hrs     Client Info     0     0     0       Oil Charged     Client Info     N/A     NA     NA       Sample Status     Imit/base     current     history1     history2       Iron     ppm     ASTM 05156n     >8     0     <1     0       Othormium     ppm     ASTM 05156n     >2     0     0     0       Nickel     ppm     ASTM 05156n     >2     0     0     0       Silver     ppm     ASTM 05156n     >2     0     0     0       Capper     ppm     ASTM 05156n     >2     0     0     0       Vanadium     ppm     ASTM 05156n     >4     0     0     0       Capper     ppm     ASTM 05156n     0     0     0     0       Vanadium     ppm     ASTM 05156n	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age     hrs     Client Info     0     0     0       Oil Age     hrs     Client Info     0     0     0       Oil Changed     Client Info     N/A     N/A     N/A       Sample Status     n     nethod     imit/base     current     history!     history!       Iron     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       Cadmium     ppm     ASTM D5185m     >4     0     0     0       Cadmium     ppm     ASTM D5185m     <4     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Noadoese	Sample Number		Client Info		USP0001841	USP244538	USP250572
Oil Age     hrs     Client Info     0     0     0       Oil Changed     Client Info     N/A     N/A     N/A     N/A       Sample Status     method     imit/base     current     history1     history2       Iron     ppm     ASTM 05185n     >2     0     0     0       Nickel     ppm     ASTM 05185n     >2     0     0     0       Nickel     ppm     ASTM 05185n     >2     0     0     0       Silver     ppm     ASTM 05185n     >2     0     0     0       Copper     ppm     ASTM 05185n     >2     0     0     0       Cadmium     ppm     ASTM 05185n     >2     0     0     0       Vanadium     ppm     ASTM 05185n     >4     0     0     0       Cadmium     ppm     ASTM 05185n     0     0     0     0       Cadmium     ppm     ASTM 05185n     0     0     0     0       B	Sample Date		Client Info		26 Sep 2023	13 Jun 2023	28 Feb 2023
Oil Changed Sample Status     Client Info     N/A     N/A     N/A     N/A       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185n     >8     0     <1     0       Chromium     ppm     ASTM D5185n     >8     0     <1     0       Nickel     ppm     ASTM D5185n     >2     0     0     0       Nickel     ppm     ASTM D5185n     >2     0     0     0       Sliver     ppm     ASTM D5185n     >2     0     0     0       Lead     ppm     ASTM D5185n     >2     0     0     0       Vanadium     ppm     ASTM D5185n     >4     0     0     0       Vanadium     ppm     ASTM D5185n     0     0     0     0       Roren     ppm     ASTM D5185n     0     0     0     0       Roren     ppm     ASTM D5185n     0     0     0     0	Machine Age	hrs	Client Info		0	0	0
Sample Status     method     Imit/base     current     History1     NIGRMAL       WEAR METALS     method     Imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >2     0     0     0       Nickel     ppm     ASTM D5185m     >2     0     0     0       Nickel     ppm     ASTM D5185m     >2     0     0     0       Silver     ppm     ASTM D5185m     >2     0     0     0       Copper     ppm     ASTM D5185m     >2     0     0     0       Copper     ppm     ASTM D5185m     >2     0     0     0       Copper     ppm     ASTM D5185m     >4     0     0     0       Cadadium     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     imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >8     0     <1     0       Ohromium     ppm     ASTM D5185m     >2     0     0     0       Nickel     ppm     ASTM D5185m     >2     0     0     0       Silver     ppm     ASTM D5185m     >2     0     0     0       Auminum     ppm     ASTM D5185m     >2     0     0     0       Lead     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       Manganese     ppm     ASTM D5185m     0     0     0     0       Manganese     ppm     ASTM D5185m     0     0     0     0	Oil Changed		Client Info		N/A	N/A	N/A
Iron     ppm     ASTM D5185m     >8     0     <1	Sample Status				NORMAL	ABNORMAL	NORMAL
Chromium     ppm     ASTM D5185m     >2     0     0     0       Nickel     ppm     ASTM D5185m     <     1     0     0       Silver     ppm     ASTM D5185m     >2     0     0     0       Silver     ppm     ASTM D5185m     >2     0     0     0       Lead     ppm     ASTM D5185m     >2     0     0     0       Copper     ppm     ASTM D5185m     >2     0     0     0       Vanadium     ppm     ASTM D5185m     >4     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0       Galaium     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     ASTM D5185m     0     0     0     0	WEAR METALS		method	limit/base	current	history1	history2
Nickel     ppm     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       Cadmium     ppm     ASTM D5185m     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0       Barium     ppm     ASTM D5185m     0     0     0     0       Galcium     ppm     ASTM D5185m     0     0     0     0       Phosphorus     ppm     ASTM D5185m     0     0     0     0       S	Iron	ppm	ASTM D5185m	>8	0	<1	0
Titanium     ppm     ASTM D5185m     <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     <1     <1     0       Tin     ppm     ASTM D5185m     >8     <1     <1     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     Imit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Magnanese     ppm     ASTM D5185m     0     0     0     0       Phosphorus     ppm     ASTM D5185m     0     0     0     0       Silicon     ppm     ASTM D5185m     5     0     0	Nickel	ppm	ASTM D5185m		0	0	0
Aluminum     ppm     ASTM D5185m     >3     0     0     0       Lead     ppm     ASTM D5185m     >2     0     0     0       Copper     ppm     ASTM D5185m     >4     0     0     0       Tin     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       Magnesium     ppm     ASTM D5185m     0     0     0     0       Zinc     ppm     ASTM D5185m     0     0     0     0       Silicon     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     5     0     0     0	Titanium	ppm	ASTM D5185m		<1	0	0
Lead     ppm     ASTM D5185m     >2     0     0     0       Copper     ppm     ASTM D5185m     >8     <1     <1     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       ADDITVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Marganese     ppm     ASTM D5185m     0     0     0     0       Marganese     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     15     0     0     0	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper     ppm     ASTM D5185m     >8     <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     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Magnaese     ppm     ASTM D5185m     0     0     0     0       Magnaese     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     ASTM D5185m     0     0     2     0       Sulfur     ppm     ASTM D5185m     0     0     2     0       Sulfur     ppm     ASTM D5185m     5     0     0     <1	Lead	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     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Barium     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     <1	Copper	ppm	ASTM D5185m	>8	<1	<1	0
Cadmium     pm     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       Malybdenum     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       Contactium     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     5     0     0     <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       Magnesse     ppm     ASTM D5185m     0     <1     0       Magnesium     ppm     ASTM D5185m     0     <1     0       Calcium     ppm     ASTM D5185m     0     0     0       Phosphorus     ppm     ASTM D5185m     0     0     0       Zinc     ppm     ASTM D5185m     5     0     0       Sulfur     ppm     ASTM D5185m     5     0     0       Sodium     ppm     ASTM D5185m     >15     0     0     <1       Sodium     ppm     ASTM D5185m     >20     0     1     0       Potassium     ppm     ASTM D6304     >0.01     0.002     0.004 <th>Vanadium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	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       Magnese     ppm     ASTM D5185m     0     <1     0     <1       Magnesium     ppm     ASTM D5185m     0     <1     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     5     0     0     0       Sodium     ppm     ASTM D5185m     >15     0     <1     0       Sodium     ppm     ASTM D5185m     >20     0     1     0       Vater     %     ASTM D5185m     >20     0     1     0       Particles >4µm     AS	Cadmium	ppm	ASTM D5185m		0	0	0
Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0       Magnesium     ppm     ASTM D5185m     0     <1     0     <1       Magnesium     ppm     ASTM D5185m     0     <1     0     <1       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     5     0     0     0       Sulfur     ppm     ASTM D5185m     >15     0     0     <1       Sodium     ppm     ASTM D5185m     >20     0     1     0       Vater     %     ASTM D5185m     >20     0     1     0       Vater     %     ASTM D5185m     >20     0     1     0       Particles >4µm<	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     0     <1     0     <1       Magnesium     ppm     ASTM D5185m     0     <1     0     0       Calcium     ppm     ASTM D5185m     0     0     0     0       Phosphorus     ppm     ASTM D5185m     0     0     0     0       Zinc     ppm     ASTM D5185m     0     0     2     0       Sulfur     ppm     ASTM D5185m     5     0     0     0       Sodium     ppm     ASTM D5185m     >15     0     0     <1       Sodium     ppm     ASTM D5185m     >15     0     0     <1       Sodium     ppm     ASTM D5185m     >20     0     1     0       Vater     %     ASTM D6304     >0.01     0.001     0.002     0.004       pm     ASTM D6304     >100     0.00     22.8     41.6	Boron	ppm	ASTM D5185m		0	0	0
Manganese     ppm     ASTM D5185m     <1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium     ppm     ASTM D5185m     0     <1	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium     ppm     ASTM D5185m     0     0     0       Phosphorus     ppm     ASTM D5185m     0     0     0       Zinc     ppm     ASTM D5185m     0     2     0       Sulfur     ppm     ASTM D5185m     0     2     0       Sulfur     ppm     ASTM D5185m     5     0     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0     0     <1       Sodium     ppm     ASTM D5185m     >20     0     1     0     0       Potassium     ppm     ASTM D5185m     >20     0     1     0     0     0       Water     %     ASTM D6304     >0.01     0.001     0.002     0.004       ppm Water     ppm     ASTM D7647     >1000     901     ≤     31652     3149       Particles >4µm     ASTM D7647     >200     23     13     3	Manganese	ppm	ASTM D5185m		<1	0	<1
Phosphorus     ppm     ASTM D5185m     0     0     0       Zinc     ppm     ASTM D5185m     0     2     0       Sulfur     ppm     ASTM D5185m     5     0     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0     0     <1	Magnesium	ppm	ASTM D5185m		0	<1	0
Zinc     ppm     ASTM D5185m     0     2     0       Sulfur     ppm     ASTM D5185m     5     0     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0     0     <1       Sodium     ppm     ASTM D5185m     >15     0     0     <1       Sodium     ppm     ASTM D5185m     >20     0     1     0       Potassium     ppm     ASTM D6304     >0.01     0.001     0.002     0.004       ppm Water     ppm     ASTM D6304     >100     0.00     22.8     41.6       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     901     31652     3149       Particles >6µm     ASTM D7647     >2006     3963     655       Particles >1µm     ASTM D7647     >320     12     23     13       Pa	Calcium	ppm	ASTM D5185m		0	0	0
Sulfur     ppm     ASTM D5185m     5     0     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0     0     <1       Sodium     ppm     ASTM D5185m     >15     0     0     <1       Sodium     ppm     ASTM D5185m     >20     0     1     0       Potassium     ppm     ASTM D5185m     >20     0     1     0       Water     %     ASTM D5185m     >20     0     1     0       ppm Water     ppm     ASTM D6304     >0.01     0.002     0.004       ppm Water     ppm     ASTM D6304     >100     0.00     22.8     41.6       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >200     206     3963     655       Particles >14µm     ASTM D7647     >20     0     0     0	Phosphorus	ppm	ASTM D5185m		0	0	0
CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0     0     <1       Sodium     ppm     ASTM D5185m     >15     0     0     0       Potassium     ppm     ASTM D5185m     >20     0     1     0       Water     %     ASTM D6304     >0.01     0.001     0.002     0.004       ppm Water     ppm     ASTM D6304     >100     0.00     22.8     41.6       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     901     31652     3149       Particles >6µm     ASTM D7647     >2500     206     3963     655       Particles >14µm     ASTM D7647     >20     0     0     0       Particles >21µm     ASTM D7647     >20     0     0     0       Particles >38µm     ASTM D7647     >20     0     0     0	Zinc	ppm	ASTM D5185m		0	2	0
Silicon   ppm   ASTM D5185m   >15   0   0   <1	Sulfur	ppm	ASTM D5185m		5	0	0
Sodium     ppm     ASTM D5185m     <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium     ppm     ASTM D5185m     >20     0     1     0       Water     %     ASTM D6304     >0.01     0.001     0.002     0.004       ppm Water     ppm     ASTM D6304     >100     0.00     22.8     41.6       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4μm     ASTM D7647     >10000     901     ▲ 31652     3149       Particles >6μm     ASTM D7647     >2500     206     ▲ 3963     655       Particles >14μm     ASTM D7647     >320     12     23     13       Particles >21μm     ASTM D7647     >20     0     0     0       Particles >38μm     ASTM D7647     >20     0     0     0       Particles >71μm     ASTM D7647     >4     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     17/15/11     22/19/12     19/17/11       FLUID DEGRADATION     method     limit/base     current     history1     h	Silicon	ppm	ASTM D5185m	>15	0	0	<1
Water     %     ASTM D6304     >0.01     0.001     0.002     0.004       ppm Water     ppm     ASTM D6304     >100     0.00     22.8     41.6       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     901     A 31652     3149       Particles >6µm     ASTM D7647     >2500     206     3963     655       Particles >14µm     ASTM D7647     >320     12     23     13       Particles >21µm     ASTM D7647     >20     0     0     0       Particles >38µm     ASTM D7647     >20     0     0     0       Particles >71µm     ASTM D7647     >4     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     17/15/11     22/19/12     19/17/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	Sodium	ppm	ASTM D5185m		<1	0	0
ppm Water     ppm     ASTM D6304     >100     0.00     22.8     41.6       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     901     A 31652     3149       Particles >6µm     ASTM D7647     >2500     206     A 3963     655       Particles >14µm     ASTM D7647     >320     12     23     13       Particles >21µm     ASTM D7647     >80     3     1     3       Particles >38µm     ASTM D7647     >20     0     0     0       Particles >71µm     ASTM D7647     >4     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     17/15/11     22/19/12     19/17/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	Potassium	ppm	ASTM D5185m	>20	0	1	0
FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   >10000   901 $\triangle$ 31652   3149     Particles >6µm   ASTM D7647   >2500   206 $\triangle$ 3963   655     Particles >14µm   ASTM D7647   >320   12   23   13     Particles >21µm   ASTM D7647   >80   3   1   3     Particles >21µm   ASTM D7647   >20   0   0   0     Particles >38µm   ASTM D7647   >20   0   0   0     Particles >71µm   ASTM D7647   >4   0   0   0     Oil Cleanliness   ISO 4406 (c)   >20/18/15   17/15/11   22/19/12   19/17/11     FLUID DEGRADATION   method   limit/base   current   history1   history2	Water	%	ASTM D6304	>0.01	0.001	0.002	0.004
Particles >4μm   ASTM D7647   >10000   901   A 31652   3149     Particles >6μm   ASTM D7647   >2500   206   A 3963   655     Particles >14μm   ASTM D7647   >320   12   23   13     Particles >21μm   ASTM D7647   >80   3   1   3     Particles >21μm   ASTM D7647   >20   0   0   0     Particles >38μm   ASTM D7647   >20   0   0   0     Particles >71μm   ASTM D7647   >4   0   0   0     Oil Cleanliness   ISO 4406 (c)   >20/18/15   17/15/11   A 22/19/12   19/17/11     FLUID DEGRADATION   method   limit/base   current   history1   history2	ppm Water	ppm	ASTM D6304	>100	0.00	22.8	41.6
Particles >6µm   ASTM D7647   >2500   206   ▲ 3963   655     Particles >14µm   ASTM D7647   >320   12   23   13     Particles >21µm   ASTM D7647   >80   3   1   3     Particles >21µm   ASTM D7647   >80   3   1   3     Particles >38µm   ASTM D7647   >20   0   0   0     Particles >71µm   ASTM D7647   >4   0   0   0     Oil Cleanliness   ISO 4406 (c)   >20/18/15   17/15/11   ▲ 22/19/12   19/17/11     FLUID DEGRADATION   method   limit/base   current   history1   history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14μm   ASTM D7647   >320   12   23   13     Particles >21μm   ASTM D7647   >80   3   1   3     Particles >21μm   ASTM D7647   >20   0   0   0     Particles >38μm   ASTM D7647   >20   0   0   0     Particles >71μm   ASTM D7647   >4   0   0   0     Oil Cleanliness   ISO 4406 (c)   >20/18/15   17/15/11   ▲ 22/19/12   19/17/11     FLUID DEGRADATION   method   limit/base   current   history1   history2	Particles >4µm		ASTM D7647	>10000		<b>A</b> 31652	3149
Particles >21μm     ASTM D7647     >80     3     1     3       Particles >38μm     ASTM D7647     >20     0     0     0       Particles >38μm     ASTM D7647     >20     0     0     0       Particles >71μm     ASTM D7647     >4     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     17/15/11     Δ 22/19/12     19/17/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >6µm		ASTM D7647	>2500	206	▲ 3963	655
Particles >38μm     ASTM D7647     >20     0     0     0       Particles >71μm     ASTM D7647     >4     0     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     17/15/11     ▲ 22/19/12     19/17/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >14µm		ASTM D7647	>320	12	23	13
Particles >71μm     ASTM D7647     >4     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     17/15/11     ▲ 22/19/12     19/17/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >21µm		ASTM D7647	>80	3	1	3
Oil Cleanliness     ISO 4406 (c)     >20/18/15     17/15/11 $\triangle$ 22/19/12     19/17/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >38µm		ASTM D7647	>20	0	0	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	17/15/11	▲ 22/19/12	19/17/11
Acid Number (AN)     mg KOH/g     ASTM D974     0.014     0.016     0.015	FLUID DEGRADA		method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974		0.014	0.016	0.015



# **OIL ANALYSIS REPORT**

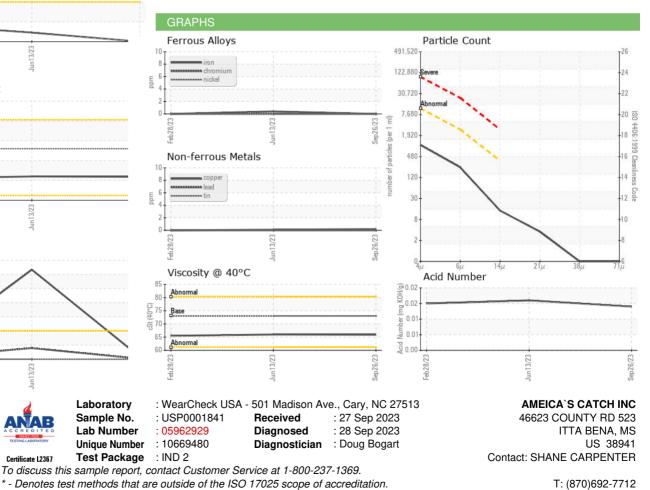






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	73	65.9	66.0	65.5
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					NH3 #10 WED:24168867 AMEITT	
Detterre						

Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: SHANE CARPENTER - AMEITT