

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id H-3 (S/N 63349) Component

#### Refrigeration Compressor Fluid USPI 1009-68 SC (--- 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.

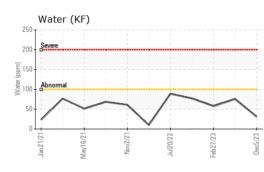
### Fluid Condition

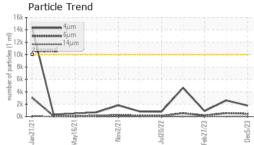
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

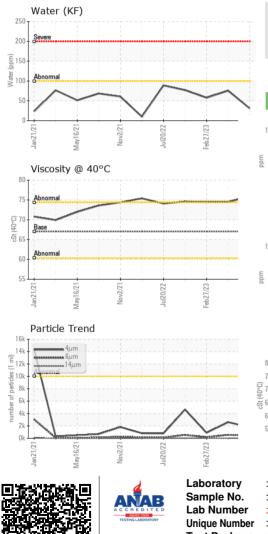
SAMPLE INFORMATION     method     limit/base     current     history1     history2       Sample Number     Client Info     05 Dec 2023     11 Sep 203     27 Feb 2023       Machine Age     hrs     Client Info     0     0     0       Oil Age     hrs     Client Info     0     0     0       Oil Changed     Client Info     N/A     N/A     N/A       Sample Status     Imit/base     current     history1     N/A       WEAR METALS     method     limit/base     current     history2     N/A       Iron     ppm     ASTM 05155m     >2     0     0     0       Nickel     ppm     ASTM 05155m     >2     0     0     0       Silver     ppm     ASTM 05155m     >2     0     0     0       Cadmium     ppm     ASTM 05155m     >2     0     0     0       Cadmium     ppm     ASTM 05155m     2     0     0     0       Cadmium     ppm     ASTM 05155m			Jan2021	May2021 Nov2021	Jul2022 Feb2023	Dec2023	
Sample Date     Client Info     05 Dec 2023     11 Sep 2023     27 Feb 2023       Machine Age     hrs     Client Info     0     0     0       Oil Age     hrs     Client Info     0     0     0       Oil Charged     Client Info     N/A     N/A     N/A     N/A       Sample Status     Imit/base     current     History1     History2       Iron     ppm     ASTM 05185m     >8     0     0     0       Chromium     ppm     ASTM 05185m     >2     0     0     0       Silver     ppm     ASTM 05185m     >2     0     0     0       Aluminum     ppm     ASTM 05185m     >2     0     0     0       Aluminum     ppm     ASTM 05185m     >2     0     0     0     0       Vanadium     ppm     ASTM 05185m     >4     0     0     0     0       Vanadium     ppm     ASTM 05185m     0     0     0     0     0	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age     hrs     Client Info     0     0     0     0       Oil Age     Irrs     Client Info     N/A     N/A     N/A       Sample Status     Irrs     Client Info     N/A     N/A     N/A       WEAR METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >8     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       Cadmium     ppm     ASTM D5185m     >2     0     0     0       Cadmium     ppm     ASTM D5185m     >4     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Nondbelenum     ppm     ASTM D5185m     0     0     0     0  <	Sample Number		Client Info		USP0003945	USP0000089	USP246146
Oil Age     hrs     Client Info     0     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 05185m     >8     0     0     0       Othormium     ppm     ASTM 05185m     >2     0     0     0       Nickel     ppm     ASTM 05185m     >2     0     0     0       Silver     ppm     ASTM 05185m     >2     0     0     0       Copper     ppm     ASTM 05185m     >2     0     0     0       Vanadium     ppm     ASTM 05185m     >2     0     0     0       Vanadium     ppm     ASTM 05185m     >4     0     0     0       Cadmium     ppm     ASTM 05185m     0     0     0     0       Cadmium     ppm     ASTM 05185m     0     0     0     0	Sample Date		Client Info		05 Dec 2023	11 Sep 2023	27 Feb 2023
Oil Changed Sample Status     Client Info     N/A     N/A     N/A     N/A       WEAR METALS     method     Imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >8     0     0     0       Chromium     ppm     ASTM D5185m     >2     0     0     0       Nickel     ppm     ASTM D5185m     2     0     0     0       Nickel     ppm     ASTM D5185m     2     0     0     0       Auminum     ppm     ASTM D5185m     2     0     0     0       Lead     ppm     ASTM D5185m     2     0     0     0       Cadmium     ppm     ASTM D5185m     2     0     0     0       Cadmium     ppm     ASTM D5185m     2     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0 <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Machine Age	hrs	Client Info		0	0	0
Sample Status     method     Imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >8     0     0     0       Nickel     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       Cadatium     ppm     ASTM D5185m     >4     0     0     0       Cadatium     ppm     ASTM D5185m     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0       Barium     ppm     ASTM D5185m     0     0     0     0 <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Oil Age	hrs	Client Info		0	0	0
WEAR METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >8     0     0     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       Copper     ppm     ASTM D5185m     >2     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     1     0       Maganese     ppm     ASTM D5185m     0     0     0     <	Oil Changed		Client Info		N/A	N/A	N/A
Iron     ppm     ASTM D5185m     >8     0     0     0       Nickel     ppm     ASTM D5185m     >2     0     0     0       Nickel     ppm     ASTM D5185m     <2     0     0     0       Titanium     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       Tin     ppm     ASTM D5185m     >8     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Magnaese     ppm     ASTM D5185m     0     0     0     0       Magnaese     ppm     ASTM D5185m     0     0     0     2	Sample Status				NORMAL	NORMAL	NORMAL
prim     ASTM D5185m     >2     0     0     0       Nickel     ppm     ASTM D5185m     0     0     0       Silver     ppm     ASTM D5185m     >2     0     0     0       Silver     ppm     ASTM D5185m     >2     0     0     0       Astm D5185m     >2     0     0     0     1       Lead     ppm     ASTM D5185m     >2     0     0     0       Copper     ppm     ASTM D5185m     >4     0     0     0       Vanadium     ppm     ASTM D5185m     8     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       Cadicium     ppm     ASTM D5185m     0     0     0     0       Calaicium     ppm     ASTM	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       Aluminum     ppm     ASTM D5185m     >2     0     0     0       Lead     ppm     ASTM D5185m     >3     0     0     0       Copper     ppm     ASTM D5185m     >4     0     0     0       Vanadium     ppm     ASTM D5185m     <4     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     1       Magnesium     ppm     ASTM D5185m     0     0     1     0       Calcium     ppm     ASTM D5185m     0     0     2     2 <td< th=""><th>Iron</th><th>ppm</th><th>ASTM D5185m</th><th>&gt;8</th><th>0</th><th>0</th><th>0</th></td<>	Iron	ppm	ASTM D5185m	>8	0	0	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     <1       Lead     ppm     ASTM D5185m     >2     0     0     0       Copper     ppm     ASTM D5185m     >2     0     0     0       Tin     ppm     ASTM D5185m     >8     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       Magnesium     ppm     ASTM D5185m     0     0     2     2       Sulfur     ppm     ASTM D5185m     0     1     0     2	Nickel	ppm	ASTM D5185m		0	0	0
Aluminum     ppm     ASTM D5185m     >3     0     0     <1	Titanium	ppm	ASTM D5185m		<1	0	0
Lead     ppm     ASTM D5185m     >2     0     0     0       Copper     ppm     ASTM D5185m     >8     0     0     0       Vanadium     ppm     ASTM D5185m     >4     0     0     0       Cadmium     ppm     ASTM D5185m      0     0     0       ADDITIVES     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     1       Maganesium     ppm     ASTM D5185m     0     0     0     2       Sulfur     ppm     ASTM D5185m     0     1     0     2       Sulfur     ppm     ASTM D5185m     0     <1     1     0       Sulfur     ppm     ASTM D5185m     15     0     <1     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       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Magnaginese     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     1       Phosphorus     ppm     ASTM D5185m     0     0     2     2       Sulfur     ppm     ASTM D5185m     0     0     2     2       Sulfur     ppm     ASTM D5185m     0     <1     1     0       Varia     ppm     ASTM D5185m     20     0     1     0	Aluminum	ppm	ASTM D5185m	>3	0	0	<1
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       Molybdenum     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     0       Galcium     ppm     ASTM D5185m     0     0     0     2       Sulfur     ppm     ASTM D5185m     0     0     2     2       Sulfur     ppm     ASTM D5185m     0     <1     1     0       Sulfur     ppm     ASTM D5185m     20     0     1     0	Lead	ppm	ASTM D5185m	>2	0	0	0
Tin     ppm     ASTM D5185m     >4     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Magnanese     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     0     0       Calcium     ppm     ASTM D5185m     0     0     0     2     2       Sulfur     ppm     ASTM D5185m     0     0     2     2     2     2     3     1     0     0     2     2     2     3     1     1     0     0     2     2     3     1     1     0     0     2     2     2     3	Copper		ASTM D5185m	>8		0	0
Vanadium     ppm     ASTM D5185m     <1				>4	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       Malybdenum     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     1       Magnesium     ppm     ASTM D5185m     0     0     0     2       Calcium     ppm     ASTM D5185m     0     0     0     2       Sulfur     ppm     ASTM D5185m     50     0     9     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0     <1	Vanadium		ASTM D5185m		-	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     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0       Calcium     ppm     ASTM D5185m     0     0     21       Phosphorus     ppm     ASTM D5185m     0     0     22       Sulfur     ppm     ASTM D5185m     50     0     9     0       CONTAMINANTS     method     Imit/base     current     history1     history2       Sulfur     ppm     ASTM D5185m     >15     0     <1     1     0       Vater     ppm     ASTM D5185m     >20     0     1     0     0       Vater     %     ASTM D504     >0.01     0.003     0.007     0.005       pm Water     pm     AST	Cadmium		ASTM D5185m		0		0
Barium     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0     0       Manganese     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     ASTM D5185m     0     0     0     <1       Phosphorus     ppm     ASTM D5185m     0     0     0     2       Sulfur     ppm     ASTM D5185m     0     0     9     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0     <1     <1       Potassium     ppm     ASTM D5185m     >20     0     1     0       Water     %     ASTM D6304     >0.01     0.003     0.007     0.005       pm     Water     pm     ASTM D647     >1000     17	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     0     0     1       Magnesium     ppm     ASTM D5185m     0     0     0       Calcium     ppm     ASTM D5185m     0     0     <1       Phosphorus     ppm     ASTM D5185m     0     0     2       Sulfur     ppm     ASTM D5185m     0     0     2       Sulfur     ppm     ASTM D5185m     0     0     2       Sulfur     ppm     ASTM D5185m     50     0     9     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0     <1     <1       Potassium     ppm     ASTM D5185m     >20     0     1     0       Water     %     ASTM D6304     >0.01     0.003     0.007     0.005       pm     Water     ppm     ASTM D7647	Boron	ppm	ASTM D5185m		0	0	0
Manganese     ppm     ASTM D5185m     0     0     1       Magnesium     ppm     ASTM D5185m     0     0     0       Calcium     ppm     ASTM D5185m     0     0     <1       Phosphorus     ppm     ASTM D5185m     0     1     0       Zinc     ppm     ASTM D5185m     0     0     2       Sulfur     ppm     ASTM D5185m     50     0     9     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0     <1     <1       Sodium     ppm     ASTM D5185m     >20     0     1     0       Vater     %     ASTM D6304     >0.01     0.003     0.007     0.005       ppm Water     ppm     ASTM D7647     >10000     1778     2612     884       Particles >4µm     ASTM D7647     >2500     451     556     178       Particles >5µm     ASTM D7	Barium	ppm	ASTM D5185m		0	0	0
Manganese     ppm     ASTM D5185m     0     0     1       Magnesium     ppm     ASTM D5185m     0     0     0       Calcium     ppm     ASTM D5185m     0     0     <1       Phosphorus     ppm     ASTM D5185m     0     1     0       Zinc     ppm     ASTM D5185m     0     0     2       Sulfur     ppm     ASTM D5185m     50     0     9     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0     <1     <1       Sodium     ppm     ASTM D5185m     >20     0     1     0       Vater     %     ASTM D5185m     >20     0     1     0       Water     %     ASTM D6304     >0.01     0.003     0.007     0.005       ppm     Math D6304     >100     31     75.6     57.6       FLUID CLEANLINESS     method     limit/	Molybdenum	ppm	ASTM D5185m		0	0	0
Magnesium     ppm     ASTM D5185m     0     0     0       Calcium     ppm     ASTM D5185m     0     1     0       Phosphorus     ppm     ASTM D5185m     0     1     0       Zinc     ppm     ASTM D5185m     0     0     2       Sulfur     ppm     ASTM D5185m     50     0     9     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0     <1     <1       Sodium     ppm     ASTM D5185m     >20     0     1     0       Potassium     ppm     ASTM D6304     >0.01     0.003     0.007     0.005       ppm Water     ppm     ASTM D7647     >10000     1778     2612     884       Particles >4µm     ASTM D7647     >2500     451     556     178       Particles >56µm     ASTM D7647     >640     17     9     17       Particles >21µm	•		ASTM D5185m		0	0	1
Calcium     ppm     ASTM D5185m     0     0     <1	Magnesium	ppm	ASTM D5185m		0	0	0
Phosphorus     ppm     ASTM D5185m     0     1     0       Zinc     ppm     ASTM D5185m     0     0     2       Sulfur     ppm     ASTM D5185m     50     0     9     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0     <1	-	ppm	ASTM D5185m		0	0	<1
Zinc     ppm     ASTM D5185m     0     0     2       Sulfur     ppm     ASTM D5185m     50     0     9     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0     <1     <1       Sodium     ppm     ASTM D5185m     >15     0     <1     0       Potassium     ppm     ASTM D5185m     >20     0     1     0       Water     %     ASTM D5185m     >20     0     1     0       Water     %     ASTM D6304     >0.01     0.003     0.007     0.005       ppm Water     ppm     ASTM D6304     >100     31     75.6     57.6       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     1778     2612     884       Particles >6µm     ASTM D7647     2600     451     556     17	Phosphorus		ASTM D5185m		0	1	0
Sulfur     ppm     ASTM D5185m     50     0     9     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0     <1     <1       Sodium     ppm     ASTM D5185m     >15     0     <1     <1       Potassium     ppm     ASTM D5185m     >20     0     1     0       Water     %     ASTM D6304     >0.01     0.003     0.007     0.005       ppm Water     ppm     ASTM D6304     >100     31     75.6     57.6       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     1778     2612     884       Particles >6µm     ASTM D7647     >2500     451     556     178       Particles >1µm     ASTM D7647     >1000     177     9     17       Particles >21µm     ASTM D7647     160     4     2	•		ASTM D5185m		0	0	2
Silicon   ppm   ASTM D5185m<>15   0   <1   <1     Sodium   ppm   ASTM D5185m   <21   1   0     Potassium   ppm   ASTM D5185m   >20   0   1   0     Vater   %   ASTM D6304   >0.01   0.003   0.007   0.005     ppm Water   ppm   ASTM D6304   >100   31   75.6   57.6     FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   >10000   1778   2612   884     Particles >6µm   ASTM D7647   >2500   451   556   178     Particles >6µm   ASTM D7647   >640   17   9   17     Particles >21µm   ASTM D7647   >160   4   2   6     Particles >38µm   ASTM D7647   >10   0   0   0     Particles >71µm   ASTM D7647   >10   0   0   0   0     Oil Cleanliness   ISO 4406 (c)   >20/18/16   18/16/11   19/16/10   17/15/11	Sulfur		ASTM D5185m	50	0	9	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     0.003     0.007     0.005       ppm Water     ppm     ASTM D6304     >100     31     75.6     57.6       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     1778     2612     884       Particles >6µm     ASTM D7647     >2500     451     556     178       Particles >6µm     ASTM D7647     >640     17     9     17       Particles >14µm     ASTM D7647     >160     4     2     6       Particles >38µm     ASTM D7647     >40     0     0     0       Particles >71µm     ASTM D7647     >10     0     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/16     18/16/11     19/16/10     17/15/11       FLUID DEGRADATION     method     limit/base     current     history1	Silicon	ppm	ASTM D5185m	>15	0	<1	<1
Water     %     ASTM D6304     >0.01     0.003     0.007     0.005       ppm Water     ppm     ASTM D6304     >100     31     75.6     57.6       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     1778     2612     884       Particles >6µm     ASTM D7647     >2500     451     556     178       Particles >6µm     ASTM D7647     >640     17     9     17       Particles >21µm     ASTM D7647     >160     4     2     6       Particles >38µm     ASTM D7647     >10     0     0     0       Particles >71µm     ASTM D7647     >10     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/16     18/16/11     19/16/10     17/15/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	Sodium	ppm	ASTM D5185m		<1	1	0
ppm Water     ppm     ASTM D6304     >100     31     75.6     57.6       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     1778     2612     884       Particles >6µm     ASTM D7647     >2500     451     556     178       Particles >6µm     ASTM D7647     >640     17     9     17       Particles >14µm     ASTM D7647     >160     4     2     6       Particles >21µm     ASTM D7647     >40     0     0     0       Particles >38µm     ASTM D7647     >40     0     0     0       Particles >71µm     ASTM D7647     >10     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/16     18/16/11     19/16/10     17/15/11       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     1778     2612     884       Particles >6µm     ASTM D7647     >2500     451     556     178       Particles >6µm     ASTM D7647     >640     17     9     17       Particles >14µm     ASTM D7647     >640     17     9     17       Particles >21µm     ASTM D7647     >160     4     2     6       Particles >38µm     ASTM D7647     >40     0     0     0       Particles >71µm     ASTM D7647     >10     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/16     18/16/11     19/16/10     17/15/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	Water	%	ASTM D6304	>0.01	0.003	0.007	0.005
Particles >4μm     ASTM D7647     >10000     1778     2612     884       Particles >6μm     ASTM D7647     >2500     451     556     178       Particles >14μm     ASTM D7647     >640     17     9     17       Particles >21μm     ASTM D7647     >160     4     2     6       Particles >21μm     ASTM D7647     >160     4     0     0       Particles >38μm     ASTM D7647     >10     0     0     0       Particles >71μm     ASTM D7647     >10     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/16     18/16/11     19/16/10     17/15/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	ppm Water	ppm	ASTM D6304	>100	31	75.6	57.6
Particles >6μm     ASTM D7647     >2500     451     556     178       Particles >14μm     ASTM D7647     >640     17     9     17       Particles >21μm     ASTM D7647     >160     4     2     6       Particles >21μm     ASTM D7647     >160     4     0     0     0       Particles >38μm     ASTM D7647     >40     0     0     0     0       Particles >71μm     ASTM D7647     >10     0     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/16     18/16/11     19/16/10     17/15/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14μm     ASTM D7647     >640     17     9     17       Particles >21μm     ASTM D7647     >160     4     2     6       Particles >38μm     ASTM D7647     >40     0     0     0       Particles >38μm     ASTM D7647     >40     0     0     0       Particles >71μm     ASTM D7647     >10     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/16     18/16/11     19/16/10     17/15/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >4µm		ASTM D7647	>10000	1778	2612	884
Particles >21μm     ASTM D7647     >160     4     2     6       Particles >38μm     ASTM D7647     >40     0     0     0       Particles >38μm     ASTM D7647     >40     0     0     0       Particles >71μm     ASTM D7647     >10     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/16     18/16/11     19/16/10     17/15/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >6µm		ASTM D7647	>2500	451	556	178
Particles >38μm     ASTM D7647     >40     0     0     0       Particles >71μm     ASTM D7647     >10     0     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/16     18/16/11     19/16/10     17/15/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >14µm		ASTM D7647	>640	17	9	17
Particles >71μm     ASTM D7647     >10     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/16     18/16/11     19/16/10     17/15/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >21µm		ASTM D7647	>160	4	2	6
Oil Cleanliness     ISO 4406 (c)     >20/18/16     18/16/11     19/16/10     17/15/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >38µm		ASTM D7647	>40	0	0	0
Oil Cleanliness     ISO 4406 (c)     >20/18/16 <b>18/16/11</b> 19/16/10     17/15/11       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >71µm		ASTM D7647	>10	0	0	0
	-		ISO 4406 (c)	>20/18/16	18/16/11	19/16/10	17/15/11
	FLUID DEGRADA		method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.012		0.014



# **OIL ANALYSIS REPORT**

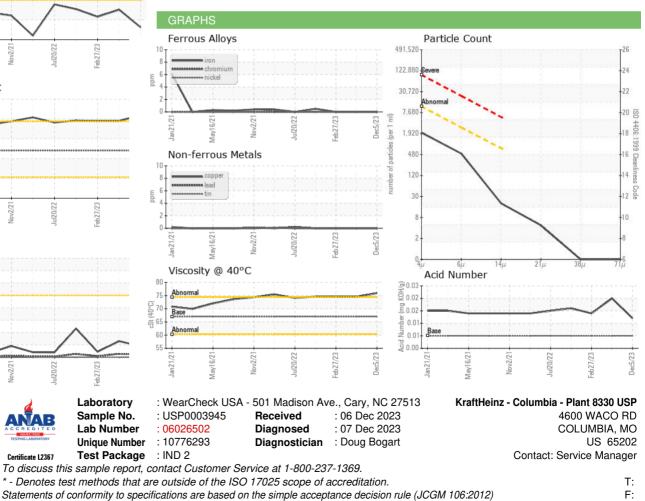






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67	75.9	74.5	74.5
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color					a.	WC ID: 2
				1000		

Bottom



Contact/Location: Service Manager - KRACOLUSP