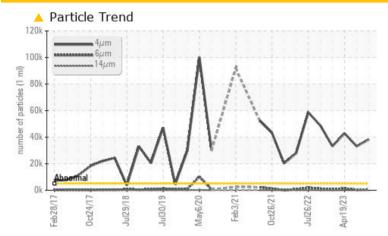


COMPONENT CONDITION SUMMARY



Sample Rating Trend

RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TES	ST RESULTS			
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647 >5	5000 🔺 38249	A 33158	42821
Oil Cleanliness	ISO 4406 (c) >1	19/17/14 🔺 22/16/11	🔺 22/16/10	🔺 23/18/12

Customer Id: CONRUS Sample No.: USP0003666 Lab Number: 06009689 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

19 Aug 2023 Diag: Doug Bogart



Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

19 Apr 2023 Diag: Doug Bogart

Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

25 Jan 2023 Diag: Jonathan Hester

Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT

Area **PLATE FREEZER** Machine Id **PLATE FRZR 2-2** Component

Hydraulic System Fluid LUBRIPLATE L0867-062 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

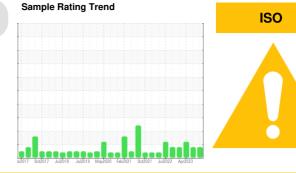
All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil.

Fluid Condition

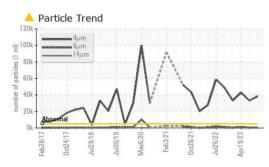
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

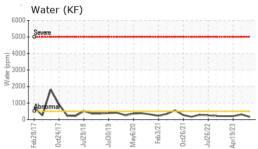


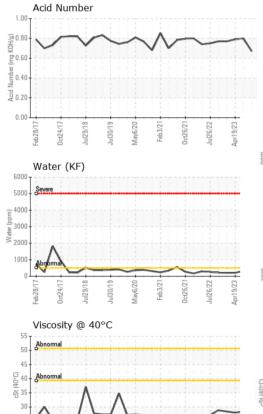
Sample Number Client Info USP000366 USP000570 USP24828 Sample Date ns Client Info 0 0 0 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Oil Age hrs Client Info N/A N/A N/A Sample Status Imit base current history1 Mistory2 Iron ppm ASTM 05185m >20 6 7 6 Chromium ppm ASTM 05185m >20 0 0 0 Nickel ppm ASTM 05185m >20 <1 <1 <1 Aluminum ppm ASTM 05185m >20 0 0 0 Capper ppm ASTM 05185m >20 0 0 0 Capper ppm ASTM 05185m >20 0 0 0 Capper ppm ASTM 05185m	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Date Client Info 15 Nov 2023 19 Aug 2023 19 Apr 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 ABNORMAL ABNORMAL ABNORMAL WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM 05185m >20 6 7 6 Chronnium ppm ASTM 05185m >20 0 0 0 Nickel ppm ASTM 05185m >20 0 0 0 Aluminum ppm ASTM 05185m >20 0 0 0 Quandum ppm ASTM 05185m >20 0 0 0 0 Adaminum ppm ASTM 05185m 20 0 0 0 0 Adamation pom ASTM 05185m 20	Sample Number						
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Nickel ppm ASTM D5185m >20 0 0 0 Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m >20 <1					-		
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Aluminum ppm ASTM D5185m >20 <1 <1 2 Lead ppm ASTM D5185m >20 0 0 0 Copper ppm ASTM D5185m >20 0 0 0 Vanadium ppm ASTM D5185m >20 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 61 56 56 Barium ppm ASTM D5185m <1		ppm					
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Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 61 56 56 Barium ppm ASTM D5185m 1 2 2 Molybdenum ppm ASTM D5185m <1 0 <1 Manganese ppm ASTM D5185m <1 0 <1 Manganese ppm ASTM D5185m 2 3 3 Calcium ppm ASTM D5185m 2 3 3 Calcium ppm ASTM D5185m 188 195 189 Zinc ppm ASTM D5185m 15 2 2 1 Solitorn ppm ASTM D5185m >15 2 2 1 Solitorn ppm ASTM D5185m >20 7 6 6 Solitorn ppm ASTM D5185m >20 7	Tin	ppm	ASTM D5185m	>20	0	0	0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 61 56 56 Barium ppm ASTM D5185m 1 2 2 Molybdenum ppm ASTM D5185m <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 61 56 56 Barium ppm ASTM D5185m -1 2 2 Molybdenum ppm ASTM D5185m -1 0 <1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 1 2 2 Molybdenum ppm ASTM D5185m <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m <1 0 <1 Manganese ppm ASTM D5185m 0 0 <1	Boron	ppm	ASTM D5185m		61	56	56
Manganese ppm ASTM D5185m 0 0 <1 Magnesium ppm ASTM D5185m 2 3 3 Calcium ppm ASTM D5185m 65 76 73 Phosphorus ppm ASTM D5185m 188 195 189 Zinc ppm ASTM D5185m 15 26 22 Sulfur ppm ASTM D5185m 15 26 22 Sulfur ppm ASTM D5185m 15 2 2 1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >20 7 6 6 Water % ASTM D6304 >0.05 0.016 0.031 0.020 ppm ASTM D7647 >5000 38249 33158 42821 Particles >4µm ASTM D7647 >1300 614 431 4146 Particles >4µm ASTM D7647 <th< td=""><td>Barium</td><td>ppm</td><td>ASTM D5185m</td><td></td><th>1</th><td>2</td><td>2</td></th<>	Barium	ppm	ASTM D5185m		1	2	2
Magnesium ppm ASTM D5185m 2 3 3 Calcium ppm ASTM D5185m 65 76 73 Phosphorus ppm ASTM D5185m 188 195 189 Zinc ppm ASTM D5185m 15 26 22 Sulfur ppm ASTM D5185m 894 1019 1037 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >20 7 6 6 Water % ASTM D5304 >0.05 0.016 0.031 0.020 ppm Water ppm ASTM D7647 >5000 38249 33158 42821 Particles >4µm ASTM D7647 >1300 614 431 4246 Particles >21µm <td>Molybdenum</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th><1</th> <td>0</td> <td><1</td>	Molybdenum	ppm	ASTM D5185m		<1	0	<1
Calcium ppm ASTM D5185m 65 76 73 Phosphorus ppm ASTM D5185m 188 195 189 Zinc ppm ASTM D5185m 15 26 22 Sulfur ppm ASTM D5185m 894 1019 1037 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >20 7 6 6 Water % ASTM D5034 >0.05 0.016 0.031 0.020 ppm ASTM D7647 >5000 38249 33158 42821 Particles >4µm ASTM D7647 >1300 614 431 41346 Particles >14µm	Manganese	ppm	ASTM D5185m		0	0	<1
Phosphorus ppm ASTM D5185m 188 195 189 Zinc ppm ASTM D5185m 15 26 22 Sulfur ppm ASTM D5185m 894 1019 1037 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >20 7 6 6 Water % ASTM D504 >0.05 0.016 0.031 0.020 ppm Water ppm ASTM D7647 >5000 38249 33158 42821 Particles >4µm ASTM D7647 >1300 614 431 416 Particles >14µm ASTM D7647 >10 0 0 0 <t< td=""><td>Magnesium</td><td>ppm</td><td>ASTM D5185m</td><td></td><th>2</th><td>3</td><td>3</td></t<>	Magnesium	ppm	ASTM D5185m		2	3	3
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Sulfur ppm ASTM D5185m 894 1019 1037 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >20 7 6 6 Potassium ppm ASTM D5185m >20 7 6 6 Water % ASTM D6304 >0.05 0.016 0.031 0.020 ppm Water ppm ASTM D6304 >500 164.4 311.4 208.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 38249 33158 42821 Particles >6µm ASTM D7647 >1300 614 431 1346 Particles >21µm ASTM D7647 30 0 0	Phosphorus	ppm	ASTM D5185m		188	195	189
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Sodium ppm ASTM D5185m 0 2 2 Potassium ppm ASTM D5185m >20 7 6 6 Water % ASTM D6304 >0.05 0.016 0.031 0.020 ppm ASTM D6304 >500 164.4 311.4 208.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 ▲ 38249 ▲ 33158 ▲ 42821 Particles >6µm ASTM D7647 >1300 614 431 ▲ 1346 Particles >14µm ASTM D7647 >160 11 9 35 Particles >21µm ASTM D7647 >40 3 3 7 Particles >38µm ASTM D7647 >10 0 0 0 OI Cleanliness ISO 4406 (c) >19/17/14 22/16/11 22/16/10 23/18/12 FLUID DEGRADATION method limit/base current history1 history2 <th>CONTAMINANTS</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m 0 2 2 Potassium ppm ASTM D5185m<>20 7 6 6 Water % ASTM D6304 >0.05 0.016 0.031 0.020 ppm Water ppm ASTM D6304 >500 164.4 311.4 208.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 ▲ 38249 ▲ 33158 ▲ 42821 Particles >6µm ASTM D7647 >1300 614 431 ▲ 1346 Particles >6µm ASTM D7647 >160 11 9 35 Particles >14µm ASTM D7647 >10 0 0 0 Particles >38µm ASTM D7647 >3 0 0 0 0 Oli Cleanliness ISO 4406 (c) >19/17/14 22/16/11 22/16/10 23/18/12 FLUID DEGRADATION method limit/base current history1 h	Silicon	ppm	ASTM D5185m	>15	2	2	1
Potassium ppm ASTM D5185m >20 7 6 6 Water % ASTM D6304 >0.05 0.016 0.031 0.020 ppm ASTM D6304 >500 164.4 311.4 208.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 ▲ 38249 ▲ 33158 ▲ 42821 Particles >6µm ASTM D7647 >1300 614 431 ▲ 1346 Particles >6µm ASTM D7647 >160 11 9 35 Particles >14µm ASTM D7647 >10 0 0 0 Particles >21µm ASTM D7647 >10 0 0 0 Particles >38µm ASTM D7647 >3 0 0 0 OIl Cleanliness ISO 4406 (c) >19/17/14 22/16/11 22/16/10 23/18/12 FLUID DEGRADATION method limit/base current history1 history2 <td>Sodium</td> <td></td> <td>ASTM D5185m</td> <td></td> <th>0</th> <td>2</td> <td>2</td>	Sodium		ASTM D5185m		0	2	2
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Particles >14µm ASTM D7647 >160 11 9 35 Particles >21µm ASTM D7647 >40 3 3 7 Particles >21µm ASTM D7647 >40 3 3 7 Particles >38µm ASTM D7647 >10 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 22/16/11 22/16/10 23/18/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm			>1300	614	431	▲ 1346
Particles >21µm ASTM D7647 >40 3 3 7 Particles >38µm ASTM D7647 >10 0 0 0 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 22/16/10 23/18/12 FLUID DEGRADATION method limit/base current history1 history2							
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Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 22/16/11 ▲ 22/16/10 ▲ 23/18/12 FLUID DEGRADATION method limit/base current history1 history2	•						
Oil Cleanliness ISO 4406 (c) >19/17/14 22/16/11 22/16/10 23/18/12 FLUID DEGRADATION method limit/base current history1 history2	•						
	-						
	FLUID DEGRADA		method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.67	0.80	0.79



OIL ANALYSIS REPORT





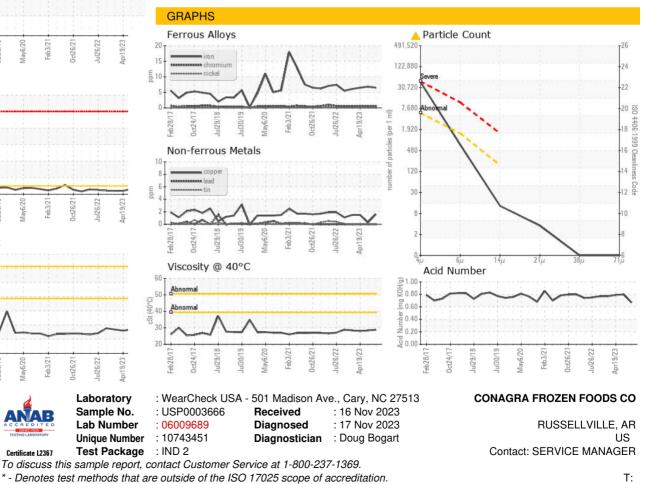


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	>0.05	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		28.8	28.4	28.0
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
Bottom						



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

F: