

# **COOLANT REPORT**

# AURORA [200006927] Machine Id 03WEA87207 - G01 - A (S/N 11246701)

Component

Coolant

**CLARIANT ANTIFROGEN N (--- LTR)** 

# Sample Rating Trend



### DIAGNOSIS

### Recommendation

The fluid is suitable for further service.

### Corrosion

All metal levels are normal indicating no corrosion in the cooling system.

### Contaminants

There is no indication of any contamination in the coolant.

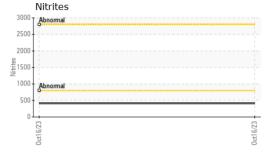
### **Coolant Condition**

Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.

SAMPLE INFORMATION					Oct2023		
Sample Date   Client Info   16 Oct 2023	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         0	Sample Number		Client Info		NX05981620		
Oil Age         hrs         Client Info         N/A             Oil Changed         Client Info         N/A             Sample Status         NORMAL         NORMAL             PHYSICAL TEST RESULTS method         limit/base         current         history1         history2           Specific Gravity         "ASTM D1287" 8.5         8.04             PH         Scale 0-14         ASTM D1121         4.0             Nitrites         ppm         AP-053:2009         412             Reserve Alkalinity         Scale 0-20         "ASTM D1121         4.0              Percentage Glycol         "ASTM D13321         44         50.6              Freezing Point         "F         ASTM D3321         -32         -35             Total Dissolved Solids         276.5               CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon	Sample Date		Client Info		16 Oct 2023		
Oil Changed Sample Status         Client Info         N/A             PHYSICAL TEST RESULTS         method         limit/base         current         history1         history2           Specific Gravity         "ASTM D1298"         1.11         1.068             PH         Scale 0-14         ASTM D1297         8.5         8.04             Nitrites         ppm         AP-053:2009         412             Reserve Alkalinity         Scale 0-20         ASTM D1291         4.0             Percentage Glycol         ASTM D3321         4.0              Freezing Point         °F         ASTM D3321         4.0              Freezing Point         °F         ASTM D3321         4.2         -35              Carboxylate         n/a         strong         n/a              CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm	Machine Age	hrs	Client Info		0		
Sample Status	Oil Age	hrs	Client Info		0		
PHYSICAL TEST RESULTS   method   limit/base   current   history1   history2	Oil Changed		Client Info		N/A		
Specific Gravity	Sample Status				NORMAL		
PH	PHYSICAL TEST F	RESULTS	method	limit/base	current	history1	history2
Nitrites	Specific Gravity		*ASTM D1298	1.11	1.068		
Reserve Alkalinity	pН	Scale 0-14	ASTM D1287	8.5	8.04		
Percentage Glycol         %         ASTM D3321         44         50.6             Freezing Point         °F         ASTM D3321         -32         -35             Total Dissolved Solids         276.5              Carboxylate         n/a             CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         5         15             Phosphorus         ppm         ASTM D6130         5         15             Boron         ppm         ASTM D6130         15         0             Molybdenum         ppm         ASTM D6130         110         145             CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >10         0             Aluminum         ppm         ASTM D6130         >10         0	Nitrites	ppm	AP-053:2009		412		
Freezing Point         °F         ASTM D3321         -32         -35             Total Dissolved Solids         276.5              Carboxylate         n/a             CORROSION INHIBITORS method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         3         <1	Reserve Alkalinity	Scale 0-20	*ASTM D1121	4.0			
Total Dissolved Solids	Percentage Glycol	%	ASTM D3321	44	50.6		
Carboxylate         n/a             CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         3         <1	Freezing Point	°F	ASTM D3321	-32	-35		
CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         3         <1	Total Dissolved Solids				276.5		
Silicon         ppm         ASTM D6130         3         <1             Phosphorus         ppm         ASTM D6130         5         15             Boron         ppm         ASTM D6130         15         0             Molybdenum         ppm         ASTM D6130         110         145             CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         1             Aluminum         ppm         ASTM D6130         >10         0             Copper         ppm         ASTM D6130         >10         0             Lead         ppm         ASTM D6130         >10         0             Tin         ppm         ASTM D6130         >10         0             Zinc         ppm         ASTM D6130         0             CONTAMINANTS         method         limit/base         current         history1	Carboxylate				n/a		
Phosphorus         ppm         ASTM D6130         5         15             Boron         ppm         ASTM D6130         15         0             Molybdenum         ppm         ASTM D6130         110         145             CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         1             Aluminum         ppm         ASTM D6130         >10         0             Copper         ppm         ASTM D6130         >10         0             Lead         ppm         ASTM D6130         >10         0             Tin         ppm         ASTM D6130         >10         0             Zinc         ppm         ASTM D6130         0             CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         2400         3377 <td>CORROSION INH</td> <td>IBITORS</td> <td>method</td> <td>limit/base</td> <th>current</th> <td>history1</td> <td>history2</td>	CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Boron	Silicon	ppm	ASTM D6130	3	<1		
Molybdenum         ppm         ASTM D6130         110         145             CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         1             Aluminum         ppm         ASTM D6130         >10         0             Copper         ppm         ASTM D6130         >10         0             Lead         ppm         ASTM D6130         >10         0             Tin         ppm         ASTM D6130         >10         0             Zinc         ppm         ASTM D6130         0              CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         2400         3377             Codium         ppm         ASTM D6130         5         0             SCALE POTENTIAL         method         limit/base         current	Phosphorus	ppm	ASTM D6130	5	15		
CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         1             Aluminum         ppm         ASTM D6130         >10         0             Copper         ppm         ASTM D6130         >10         0             Lead         ppm         ASTM D6130         >10         0             Tin         ppm         ASTM D6130         >10         0             Zinc         ppm         ASTM D6130         0             CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         2400         3377             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         5         0             SCALE POTENTIAL         method         limit/base         current         history1	Boron	ppm	ASTM D6130	15	0		
Iron         ppm         ASTM D6130         >15         1             Aluminum         ppm         ASTM D6130         >10         0             Copper         ppm         ASTM D6130         >10         0             Lead         ppm         ASTM D6130         >10         0             Tin         ppm         ASTM D6130         >10         0             Zinc         ppm         ASTM D6130         0             CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         2400         3377             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         5         0             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         6	Molybdenum	ppm	ASTM D6130	110	145		
Aluminum         ppm         ASTM D6130         >10         0             Copper         ppm         ASTM D6130         >10         0             Lead         ppm         ASTM D6130         >10         0             Tin         ppm         ASTM D6130         >10         0             Zinc         ppm         ASTM D6130         0              CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         1             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         5         0             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         6	CORROSION		method	limit/base	current	history1	history2
Copper         ppm         ASTM D6130         >10         0             Lead         ppm         ASTM D6130         >10         0             Tin         ppm         ASTM D6130         >10         0             Zinc         ppm         ASTM D6130         0             CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         1             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2400         3377             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         6	Iron	ppm	ASTM D6130	>15	1		
Lead         ppm         ASTM D6130         >10         0             Tin         ppm         ASTM D6130         >10         0             Zinc         ppm         ASTM D6130         0             CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         1             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         5         0             Potassium         ppm         ASTM D6130         5         0             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         6	Aluminum	ppm	ASTM D6130	>10	0		
Tin         ppm         ASTM D6130         >10         0             Zinc         ppm         ASTM D6130         0              CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         1             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2 400         3377             Potassium         ppm         ASTM D6130         5         0             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         6	Copper	ppm	ASTM D6130	>10	0		
Zinc         ppm         ASTM D6130         0             CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         1             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2400         3377             Potassium         ppm         ASTM D6130         5         0             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         6	Lead	ppm	ASTM D6130	>10	0		
CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         1             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2400         3377             Potassium         ppm         ASTM D6130         5         0             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         6	Tin	ppm	ASTM D6130	>10	0		
Chlorine         ppm         ASTM D6130         1             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2400         3377             Potassium         ppm         ASTM D6130         5         0             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         6	Zinc	ppm	ASTM D6130		0		
CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2400         3377             Potassium         ppm         ASTM D6130         5         0             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         6	CONTAMINANTS	;	method	limit/base	current	history1	history2
Sodium         ppm         ASTM D6130         2400         3377             Potassium         ppm         ASTM D6130         5         0             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         6	Chlorine	ppm	ASTM D6130		1		
Potassium         ppm         ASTM D6130         5         0             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         6	CARRIER SALTS		method	limit/base	current	history1	history2
SCALE POTENTIAL method limit/base current history1 history2  Calcium ppm ASTM D6130 6	Sodium	ppm	ASTM D6130	2400	3377		
Calcium         ppm         ASTM D6130         6	Potassium	ppm	ASTM D6130	5	0		
P.F	SCALE POTENTI	AL	method	limit/base	current	history1	history2
Magnesium ppm ASTM D6130 0	Calcium	ppm	ASTM D6130		6		
	Magnesium	ppm	ASTM D6130		0		



# **COOLANT REPORT**





GRAPHS			
Iron/Tin/Silver		Reserve Alkalinity	
Abnormal iron		14 7	
nessessess tin		12 Abnormal	
		10	
		Rainii	
		Reserve Alkalinity	
		8 4 4 1	
		Abnormal	
	723	0 + 523	
Oct16/23	Oct16/23	Oct16/23	
Copper/Aluminum/Lead		Freeze Point	
copper	1	10 7	
sessesses aluminum		0	
		-5+	
		©-10 in 15 - 15 - 20 - 20 - 25 - 25 - 25 - 25 - 25 - 2	
		-20 <del>-</del>	
		-30	
		-35+	
1		40	
1/23	(/23	-45 <del>  +</del>	
Oct16/23	Oct16/23	Oct16/23	
pH		Nitrites	
		Abnormal	
Abnormal		2500	
		2000	
Abnormal			
		<u>8</u> 1500 <b>-</b>	
		Abnormal	
		500	
1			
<u>+</u>	23	33 10	
Oct16/23	Oct16/23	Oct16/23	





Laboratory Sample No. Lab Number Unique Number : 10698915

: NX05981620 : 05981620

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 30 Oct 2023 Diagnostician : Jonathan Hester

: 17 Oct 2023

**NORDEX USA - Chicago** 300 SOUTH WACKER DRIVE, SUITE 1500 CHICAGO, IL

US 60606 Contact: DEVIN LINEHAN

DLinehan@nordex-online.com

T: (312)386-4124 F: (312)386-7102

Test Package : COOL- ( Additional Tests: COOL, ICP ) 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)