

# **COOLANT REPORT**

BLACKJACK CREEK [200007683] 24WEA88444 - E-04 (S/N W-122681)

Coolant

Coola Eluid

{not provided} (--- LTR)





## 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.

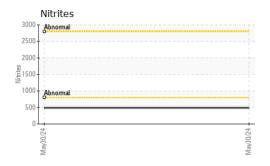
## **Coolant Condition**

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

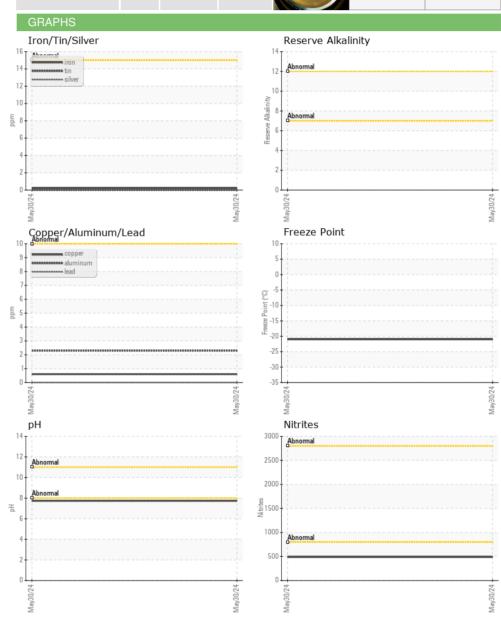
Sample Number         Client Info         NX015625            Sample Date         Client Info         30 May 2024            Machine Age         hrs         Client Info         18766904            Oil Age         hrs         Client Info         0            Oil Changed         Client Info         N/A             PHYSICAL TEST RESULTS         method         limit/base         current         history1         history2           Glycol Type         FT-IR               Specific Gravity         "ASTM D128         1.060             PH         Scale 0-14         ASTM D128         1.060             Nitrites         ppm         AP-0352009         488              Reserve Alkalinity         Scale 0-20         "ASTM D1121                             .	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date   Client Info   18766904	Sample Number		Client Info		NX015625		
Machine Age         hrs         Client Info         18766904	· .		Client Info		30 May 2024		
Oil Age         hrs         Client Info         N/A             Oil Changed         Client Info         N/A             Sample Status         NORMAL             PHYSICAL TEST RESULTS         method         limit/base         current         history1         history2           Glycol Type         FT-IR              Specific Gravity         'ASTM D1287         7.73             PH         Scale 0-40         ASTM D1287         7.73             Nitrites         ppm         AP-053:2009         488             Reserve Alkalinity         Scale 0-20         'ASTM D1121              Percentage Glycol         %         ASTM D3321         44.4             Freezing Point         °F         ASTM D3321         -21             Total Dissolved Solids         STM D6130         2              Silicon         ppm         ASTM D6130         0	•	hrs	Client Info		•		
Sample Status		hrs	Client Info		0		
PHYSICAL TEST RESULTS   method   limit/base   current   history1   history2	Oil Changed		Client Info		N/A		
Glycol Type					NORMAL		
Specific Gravity         "ASTM D1298"         1.060             pH         Scale 0-14         ASTM D1287         7.73             Nitrites         ppm         AP-053:2009         488             Reserve Alkalinity         Scale 0-20         "ASTM D1121              Percentage Glycol         %         ASTM D3321         44.4             Freezing Point         "F         ASTM D3321         -21             Total Dissolved Solids         217.5              Carboxylate         n/a              CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0             Phosphorus         ppm         ASTM D6130         0             Boron         ppm         ASTM D6130         0             CORROSION         method         limit/base         current         history1	PHYSICAL TEST R	ESULTS	method	limit/base	current	history1	history2
pH         Scale 0-14         ASTM D1287         7.73             Nitrites         ppm         AP-053:2009         488             Reserve Alkalinity         Scale 0-20         "ASTM D1121              Percentage Glycol         %         ASTM D3321         44.4             Freezing Point         °F         ASTM D3321         -21             Total Dissolved Solids         217.5              Carboxylate         n/a             CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         2             CORROSION         ppm         ASTM D6130         0             Boron         ppm         ASTM D6130         154             CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >10         2	Glycol Type		FT-IR				
Nitrites         ppm         AP-053:2009         488             Reserve Alkalinity         Scale 0:20         "ASTM D1121              Percentage Glycol         %         ASTM D3321         44.4             Freezing Point         "F         ASTM D3321         -21             Total Dissolved Solids         217.5              Carboxylate         n/a              CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         2             Phosphorus         ppm         ASTM D6130         0             Boron         ppm         ASTM D6130         0             Boron         ppm         ASTM D6130         154             CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >10         2         <	Specific Gravity		*ASTM D1298		1.060		
Reserve Alkalinity	pH	Scale 0-14	ASTM D1287		7.73		
Percentage Glycol   %   ASTM D3321   44.4         Freezing Point   °F   ASTM D3321   -21         Total Dissolved Solids   217.5         Carboxylate   n/a         CORROSION INHIBITORS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D6130   0         Phosphorus   ppm   ASTM D6130   0         Boron   ppm   ASTM D6130   0         Molybdenum   ppm   ASTM D6130   154         CORROSION   method   limit/base   current   history1   history2     Iron   ppm   ASTM D6130   >15   <1         Aluminum   ppm   ASTM D6130   >10   2         Lead   ppm   ASTM D6130   >10   2         Lead   ppm   ASTM D6130   >10   0         Zinc   ppm   ASTM D6130   >10   0         Zinc   ppm   ASTM D6130   >10   0         CONTAMINANTS   method   limit/base   current   history1   history2     Chlorine   ppm   ASTM D6130   4         CARRIER SALTS   method   limit/base   current   history1   history2     Sodium   ppm   ASTM D6130   2939         CARLE POTENTIAL   method   limit/base   current   history1   history2     Calcium   ppm   ASTM D6130   2939           SCALE POTENTIAL   method   limit/base   current   history1   history2	Nitrites	ppm	AP-053:2009		488		
Freezing Point         °F         ASTM D3321         -21             Total Dissolved Solids         217.5             Carboxylate         n/a             CORROSION INHIBITORS method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         2             Phosphorus         ppm         ASTM D6130         0             Boron         ppm         ASTM D6130         0             CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1	Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids	Percentage Glycol	%	ASTM D3321		44.4		
Carboxylate         n/a            CORROSION INHIBITORS method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         2            Phosphorus         ppm         ASTM D6130         0            Boron         ppm         ASTM D6130         0             Boron         ppm         ASTM D6130         0             Molybdenum         ppm         ASTM D6130         >154             CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >10         2             Copper         ppm         ASTM D6130         >10         0             Lead         ppm         ASTM D6130         >10         0             Zinc         ppm         ASTM D6130         11	Freezing Point	°F	ASTM D3321		-21		
CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         2             Phosphorus         ppm         ASTM D6130         0             Boron         ppm         ASTM D6130         0             Molybdenum         ppm         ASTM D6130         154             CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1	Total Dissolved Solids				217.5		
Silicon         ppm         ASTM D6130         2             Phosphorus         ppm         ASTM D6130         0             Boron         ppm         ASTM D6130         0             Molybdenum         ppm         ASTM D6130         154             CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1	Carboxylate				n/a		
Phosphorus         ppm         ASTM D6130         0             Boron         ppm         ASTM D6130         0             Molybdenum         ppm         ASTM D6130         154             CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1	CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Boron   ppm   ASTM D6130   0	Silicon	ppm	ASTM D6130		2		
Molybdenum         ppm         ASTM D6130         154             CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1	Phosphorus	ppm	ASTM D6130		0		
CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1	Boron	ppm	ASTM D6130		0		
Iron         ppm         ASTM D6130         >15         <1             Aluminum         ppm         ASTM D6130         >10         2             Copper         ppm         ASTM D6130         >10         <1	Molybdenum	ppm	ASTM D6130		154		
Aluminum         ppm         ASTM D6130         >10         2             Copper         ppm         ASTM D6130         >10         <1             Lead         ppm         ASTM D6130         >10         0             Tin         ppm         ASTM D6130         >10         0             Zinc         ppm         ASTM D6130         11             CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         4             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         375             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2	CORROSION		method	limit/base	current	history1	history2
Copper         ppm         ASTM D6130         >10         <1             Lead         ppm         ASTM D6130         >10         0             Tin         ppm         ASTM D6130         >10         0             Zinc         ppm         ASTM D6130         11             CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         4             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2939             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2	Iron	ppm	ASTM D6130	>15	<1		
Lead         ppm         ASTM D6130         >10         0             Tin         ppm         ASTM D6130         >10         0             Zinc         ppm         ASTM D6130         11             CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         4             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2939             Potassium         ppm         ASTM D6130         375             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2	Aluminum	ppm	ASTM D6130	>10	2		
Tin         ppm         ASTM D6130         >10         0             Zinc         ppm         ASTM D6130         11             CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         4             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2939             Potassium         ppm         ASTM D6130         375             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2	Copper	ppm	ASTM D6130	>10	<1		
Zinc         ppm         ASTM D6130         11             CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         4             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2939             Potassium         ppm         ASTM D6130         375             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2	Lead	ppm	ASTM D6130	>10	0		
CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         4             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2939             Potassium         ppm         ASTM D6130         375             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2	Tin	ppm	ASTM D6130	>10	0		
Chlorine         ppm         ASTM D6130         4             CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2939             Potassium         ppm         ASTM D6130         375             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2	Zinc	ppm	ASTM D6130		11		
CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2939             Potassium         ppm         ASTM D6130         375             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium         ppm         ASTM D6130         2939             Potassium         ppm         ASTM D6130         375             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2	Chlorine	ppm	ASTM D6130		4		
Potassium         ppm         ASTM D6130         375             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2	CARRIER SALTS		method	limit/base	current	history1	history2
Potassium         ppm         ASTM D6130         375             SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2	Sodium	ppm	ASTM D6130		2939		
Calcium         ppm         ASTM D6130         2	Potassium	• •	ASTM D6130		375		
PP 1 1 1 1 1	SCALE POTENTI	AL	method	limit/base	current	history1	history2
	Calcium	ppm	ASTM D6130		2		
	Magnesium	• • • • • • • • • • • • • • • • • • • •	ASTM D6130		1		



# **COOLANT REPORT**











Certificate 12367

Laboratory Sample No.

: NX015625 Lab Number : 06211184 Unique Number : 11084048

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

: 14 Jun 2024 : 20 Jun 2024 : 20 Jun 2024 - Jonathan Hester

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

US 60606 Contact: DEVIN LINEHAN

DLinehan@nordex-online.com T: (312)386-4124

\* - 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)

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

F: (312)386-7102 Contact/Location: DEVIN LINEHAN - NORDEX