

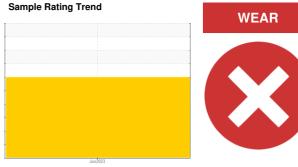
COOLANT REPORT

AURORA [200006927] Machine Id 15WEA87219 - I03 - V

Component

Coolant

ISENTHAL VARIDOS 45 (--- LTR)



DIAGNOSIS

Recommendation

We recommend drain/flush system, and refill with 50/50 antifreeze water mixture. We advise that you replenish the supplemental coolant additives (SCAs) and add per manufacturer's recommendations.

Corrosion

The aluminum level is severe.

Contaminants

There is no indication of any contamination in the coolant.

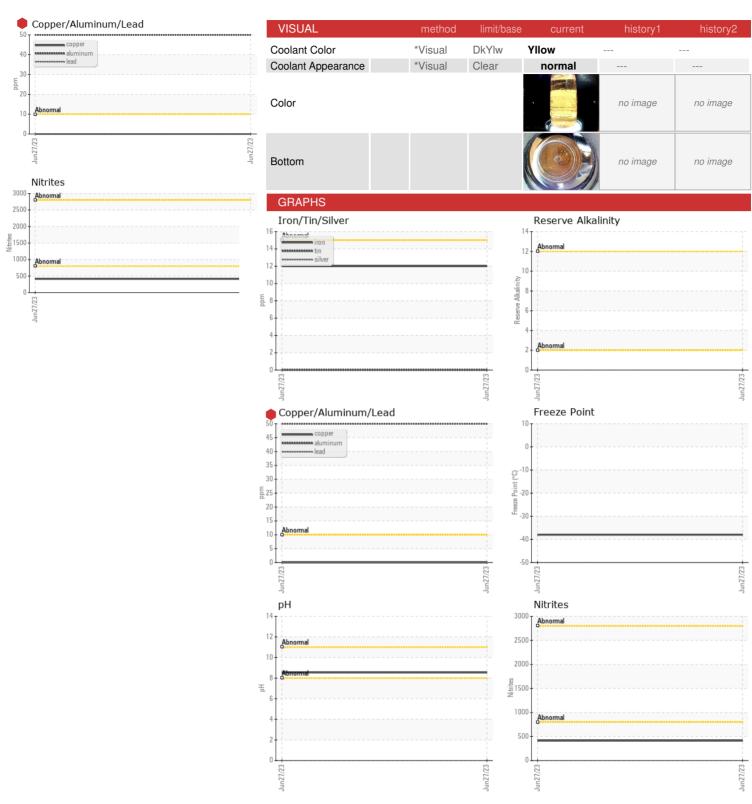
Coolant Condition

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

SAMPLE INFORMATION					Jun2023		
Sample Date Client Info 27 Jun 2023 Machine Age hrs Client Info 21299 Oil Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status SEVERE PHYSICAL TEST RESULTS method limit/base current history1 history2 Specific Gravity "ASTM D1287" 8.5 8.54 PH Scie 0-14 ASTM D1287 8.5 8.54 PH Scie 0-14 ASTM D1287 8.5 8.54 Reserve Alkalinity Scie 0-20 "ASTM D1287 45 51.2 Percentage Glycol % ASTM D3321 45 51.2 Perceratage Glycol % ASTM D3321 45 51.2 <t< th=""><th>SAMPLE INFORM</th><th>NOITAN</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Machine Age hrs Client Info 21299	Sample Number		Client Info		NX05981584		
Dil Age	Sample Date		Client Info		27 Jun 2023		
Coling C	Machine Age	hrs	Client Info		21299		
SEVERE S	Oil Age	hrs	Client Info		0		
PHYSICAL TEST RESULTS	Oil Changed		Client Info		N/A		
Specific Gravity	Sample Status				SEVERE		
pH Scale 0-14 ASTM D1287 8.5 8.54 Nitrites ppm AP-053:2009 260 412 Percentage Glycol % ASTM D3321 45 51.2 Freezing Point °F ASTM D3321 -24 -38 Total Dissolved Solids 157.0 CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 25 <1 Phosphorus ppm ASTM D6130 1075 698 Aluminum ppm ASTM D6130 >10 0 Aluminum ppm ASTM D6130 >10 0 Copper ppm ASTM D6130 >10 0 Contaminum ppm ASTM D6130 >10 0 Copper ppm ASTM D6130 >10 0 Contaminum ppm ASTM D6130 >10 0 Copper ppm ASTM D6130 >10 0 Contaminants ppm ASTM D6130 >10 >1 >1 Contaminants ppm ASTM D6130 >1 >1 Contaminants	PHYSICAL TEST R	ESULTS	method	limit/base	current	history1	history2
Nitrites	Specific Gravity		*ASTM D1298		1.069		
Reserve Alkalinity	рН	Scale 0-14	ASTM D1287	8.5	8.54		
Percentage Glycol % ASTM D3321 45 51.2 Freezing Point °F ASTM D3321 -24 -38 Total Dissolved Solids 157.0 Carboxylate n/a CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 25 <1	Nitrites	ppm	AP-053:2009	260	412		
Freezing Point °F ASTM D3321 -24 -38 Total Dissolved Solids 157.0 Carboxylate n/a CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 25 <1	Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids	Percentage Glycol	%	ASTM D3321	45	51.2		
Carboxylate n/a CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 25 <1	Freezing Point	°F	ASTM D3321	-24	-38		
CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 25 <1	Total Dissolved Solids				157.0		
Silicon ppm ASTM D6130 25 c1	Carboxylate				n/a		
Phosphorus ppm ASTM D6130 140 115 Boron ppm ASTM D6130 0 0 Molybdenum ppm ASTM D6130 1075 698 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 12 Aluminum ppm ASTM D6130 >10 50 Copper ppm ASTM D6130 >10 0 Lead ppm ASTM D6130 >10 0 Zinc ppm ASTM D6130 >10 0 Zinc ppm ASTM D6130 21 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 1075 638 <td< td=""><td>CORROSION INHI</td><td>BITORS</td><td>method</td><td>limit/base</td><td>current</td><td>history1</td><td>history2</td></td<>	CORROSION INHI	BITORS	method	limit/base	current	history1	history2
Boron	Silicon	ppm	ASTM D6130	25	<1		
Molybdenum ppm ASTM D6130 1075 698 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 12 Aluminum ppm ASTM D6130 >10 50 Copper ppm ASTM D6130 >10 0 Lead ppm ASTM D6130 >10 0 Tin ppm ASTM D6130 >10 0 Zinc ppm ASTM D6130 21 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 1075 638 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 5 818 <td< td=""><td>Phosphorus</td><td>ppm</td><td>ASTM D6130</td><td>140</td><td>115</td><td></td><td></td></td<>	Phosphorus	ppm	ASTM D6130	140	115		
CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 12 Aluminum ppm ASTM D6130 >10 50 Copper ppm ASTM D6130 >10 0 Lead ppm ASTM D6130 >10 0 Tin ppm ASTM D6130 >10 0 Zinc ppm ASTM D6130 21 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 1075 638 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 5 818 SCALE POTENTIAL method limit/base current history1	Boron	ppm	ASTM D6130	0	0		
Iron ppm ASTM D6130 >15 12 Aluminum ppm ASTM D6130 >10 50 Copper ppm ASTM D6130 >10 0 Lead ppm ASTM D6130 >10 0 Tin ppm ASTM D6130 >10 0 Zinc ppm ASTM D6130 21 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 1075 638 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 5 818 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 16 <	Molybdenum	ppm	ASTM D6130	1075	698		
Aluminum ppm ASTM D6130 >10 50 Copper ppm ASTM D6130 >10 0 Lead ppm ASTM D6130 >10 0 Tin ppm ASTM D6130 >10 0 Zinc ppm ASTM D6130 21 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 1075 638 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 5 818 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 16	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 21 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 28 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 5 818 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 16	Iron	ppm	ASTM D6130	>15	12		
Lead ppm ASTM D6130 >10 0 Tin ppm ASTM D6130 >10 0 Zinc ppm ASTM D6130 21 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 28 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 5 818 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 16	Aluminum	ppm	ASTM D6130	>10	5 0		
Tin ppm ASTM D6130 >10 0 Zinc ppm ASTM D6130 21 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 28 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 5 818 Potassium ppm ASTM D6130 5 818 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 16	Copper	ppm	ASTM D6130	>10	0		
Zinc ppm ASTM D6130 21 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 28 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 1075 638 Potassium ppm ASTM D6130 5 818 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 16	Lead	ppm	ASTM D6130	>10	0		
CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 28 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 1075 638 Potassium ppm ASTM D6130 5 818 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 16	Tin	ppm	ASTM D6130	>10	0		
Chlorine ppm ASTM D6130 28 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 1075 638 Potassium ppm ASTM D6130 5 818 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 16	Zinc	ppm	ASTM D6130		21		
CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 1075 638 Potassium ppm ASTM D6130 5 818 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 16	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D6130 1075 638 Potassium ppm ASTM D6130 5 818 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 16	Chlorine	ppm	ASTM D6130		28		
Potassium ppm ASTM D6130 5 818 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 16	CARRIER SALTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D6130 5 818 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 16	Sodium	ppm	ASTM D6130	1075	638		
Calcium ppm ASTM D6130 16	Potassium		ASTM D6130	5			
pp	SCALE POTENTI	AL _	method	limit/base	current	history1	history2
	Calcium	ppm	ASTM D6130		16		
	Magnesium	ppm	ASTM D6130		2		



COOLANT REPORT





Laboratory Sample No. Lab Number **Unique Number**

: NX05981584 : 05981584 : 10698879

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

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

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

: 17 Oct 2023 : 30 Oct 2023 Diagnostician : Jonathan Hester

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

Contact/Location: DEVIN LINEHAN - NORDEX

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)

F: (312)386-7102