



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

COOLANT REPORT

CORROSION

SEVERE

CONTAMINANTS

NORMAL

COOLANT CONDITION

ABNORMAL

Area

HUMBER RIVER HOSPITAL [275716]

Machine Id

D16*069150*C3*A

Component

Coolant

Fluid

{not provided} (--- GAL)

RECOMMENDATION

The coolant change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0021783	WA0018501	WA0017181
Sample Date		Client Info		18 Jun 2024	26 Apr 2023	26 Jan 2022
Machine Age	hrs	Client Info		325	267	227
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE

CORROSION

Aluminum and iron ppm levels are severe. The iron level is high indicating rust in the system which clogs the cooling system. The high metal levels indicate corrosion in the system.

Iron	ppm	ASTM D5185(m)	>15	▲ 161	▲ 210	▲ 100
Aluminum	ppm	ASTM D5185(m)	>10	▲ 139	▲ 39	6
Copper	ppm	ASTM D5185(m)	>10	2	5	<1
Lead	ppm	ASTM D5185(m)	>10	0	2	<1
Tin	ppm	ASTM D5185(m)	>10	0	<1	<1
Silver	ppm	ASTM D5185(m)	>10	0	0	<1
Zinc	ppm	ASTM D5185(m)	>10	28	42	9

CONTAMINANTS

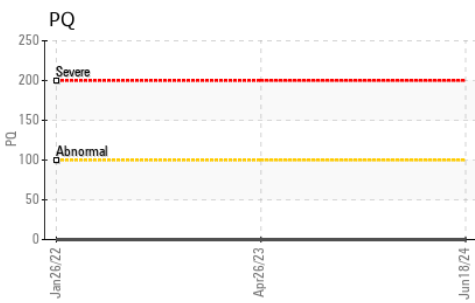
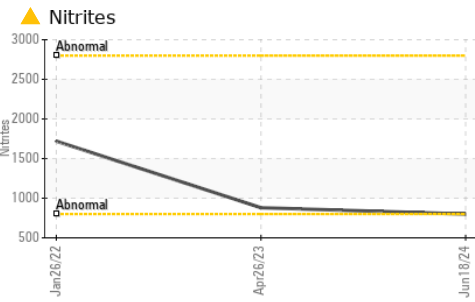
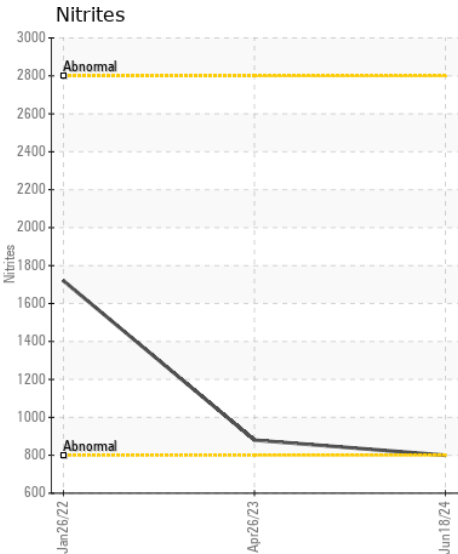
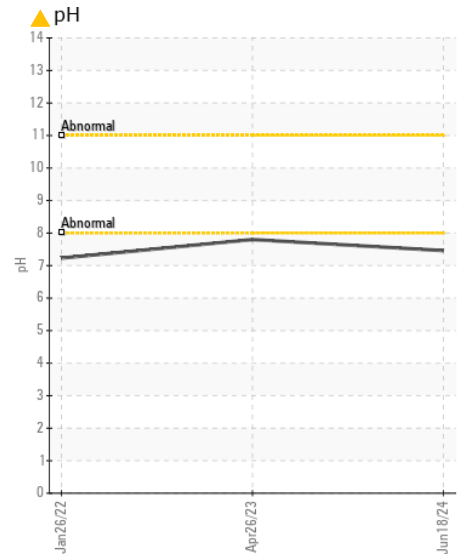
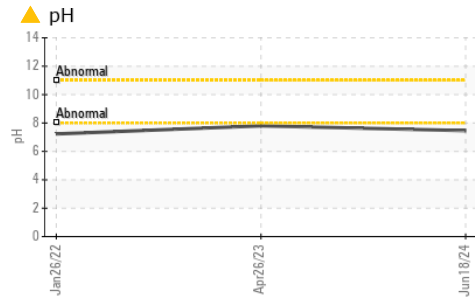
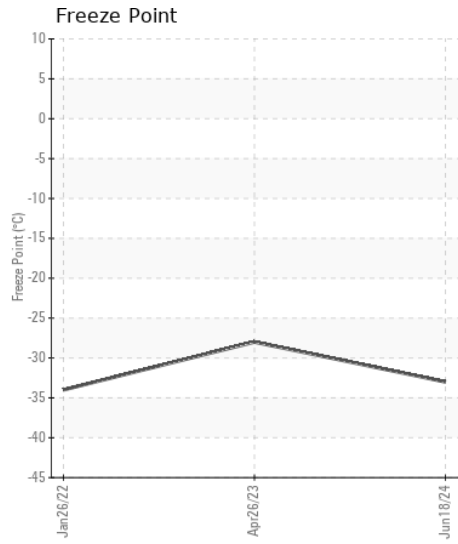
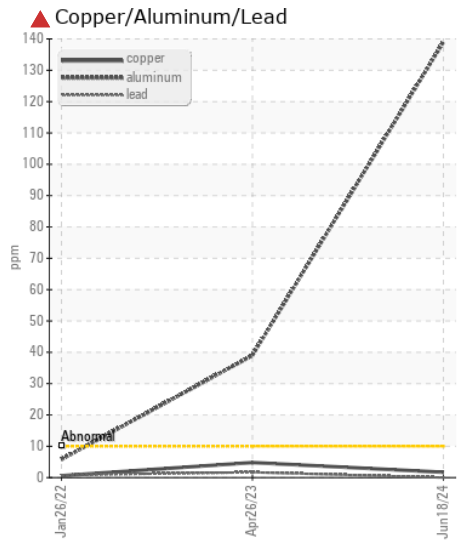
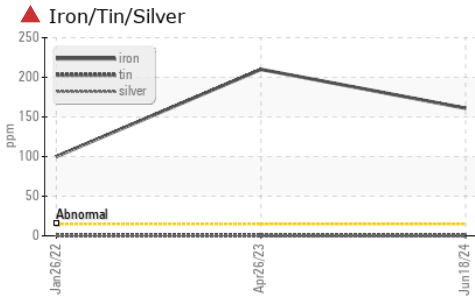
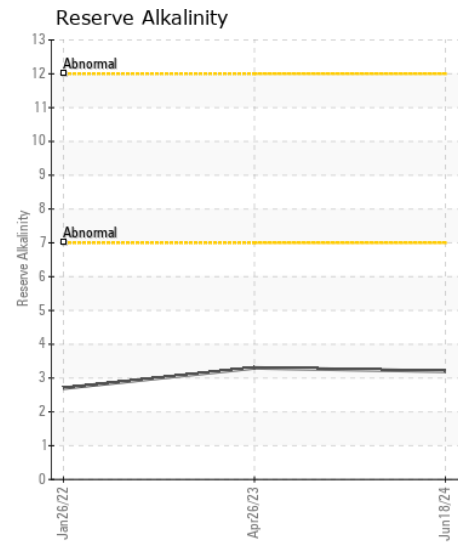
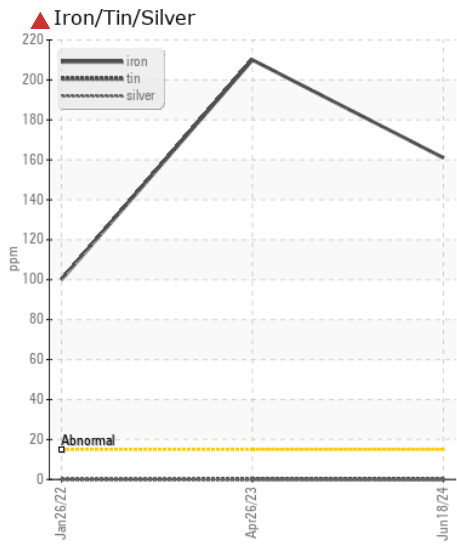
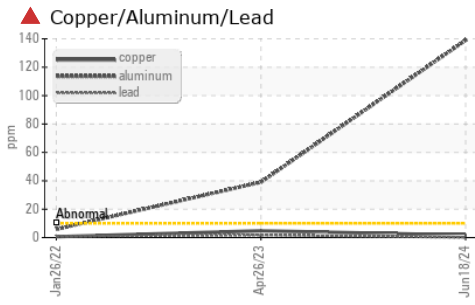
There is no indication of any contamination in the coolant.

Calcium	ppm	ASTM D5185(m)	>100	7	12	6
Magnesium	ppm	ASTM D5185(m)	>40	4	5	4
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Coolant Appearance		Visual*	Clear	Clear	▲ Very old	▲ Cloudy

COOLANT CONDITION

The nitrite level is acceptable. The pH is low which causes rust formation.

Boiling Point	°C	WC Method*		107	---	---
Specific Gravity		ASTM D1298*		1.064	1.064	1.065
pH	Scale 0-14	ASTM D1287*		▲ 7.46	▲ 7.80	▲ 7.23
Nitrites	ppm	Alcan Test Kit*		800	880	1720
Reserve Alkalinity	Scale 0-20	ASTM D1121*		3.2	3.3	2.7
Percentage Glycol	%	ASTM D3321*		47.2	47.1	48.0
Freezing Point	°C	ASTM D3321*		-33	-28	-34
Carboxylate				---	---	---
Silicon	ppm	ASTM D5185(m)		27	35	46
Phosphorus	ppm	ASTM D5185(m)		19	39	47
Boron	ppm	ASTM D5185(m)		258	316	304
Molybdenum	ppm	ASTM D5185(m)		2	2	4
Sodium	ppm	ASTM D5185(m)		2774	2223	1767
Potassium	ppm	ASTM D5185(m)		241	262	303
Coolant Color		Visual*		Grn/Yellow	Green	Green



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021783 **Received** : 03 Jul 2024
Lab Number : 02645329 **Tested** : 05 Jul 2024
Unique Number : 5802868 **Diagnosed** : 05 Jul 2024 - Kevin Marson
Test Package : COOL (Additional Tests: GlycolType, PQ)

Wajax Power Systems
 10 Diesel Drive
 Toronto, ON
 CA M8W 2T8
 Contact: David Gilkes
 dgilkes@wajax.com
 T: (416)259-3281
 F: (416)251-6191

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.