



COOLANT REPORT

CORROSION	ABNORMAL
CONTAMINANTS	NORMAL
COOLANT CONDITION	NORMAL

Area
[142229]
 Machine Id
HERCULES HAYCROFT RESERVOIR
 Component
Coolant
 Fluid
CONVENTIONAL COOLANT (25 LTR)

RECOMMENDATION

We recommend drain system, and refill with 50/50 antifreeze water mixture. We advise that you replenish the supplemental coolant additives (SCAs) and add per manufacturer's specifications. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0791167	WC113441	WC961912
Sample Date		Client Info		15 Feb 2024	07 Feb 2019	25 May 2016
Machine Age	hrs	Client Info		0	413	332
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

CORROSION

Lead ppm levels are abnormal. The high metal levels indicate corrosion in the system.

Iron	ppm	ASTM D5185(m)	>15	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>10	0	<1	2
Copper	ppm	ASTM D5185(m)	>10	8	1	▲ 25
Lead	ppm	ASTM D5185(m)	>10	▲ 12	▲ 12	5
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Silver	ppm	ASTM D5185(m)	>10	<1	0	<1
Zinc	ppm	ASTM D5185(m)	>10	1	<1	0

CONTAMINANTS

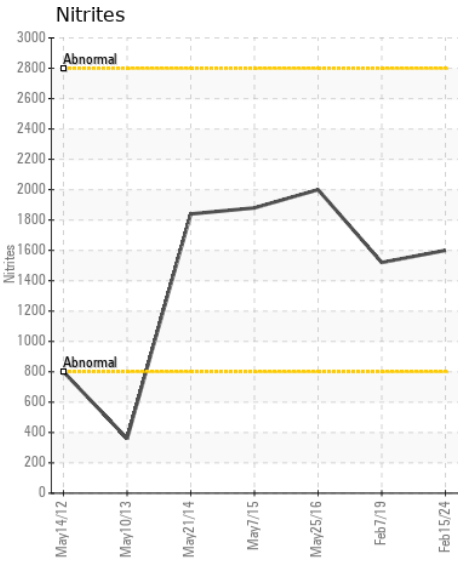
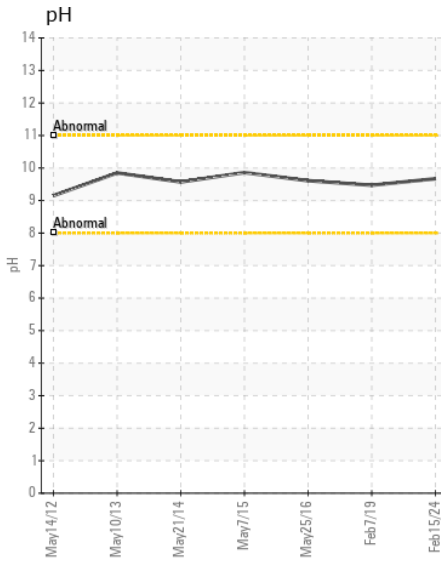
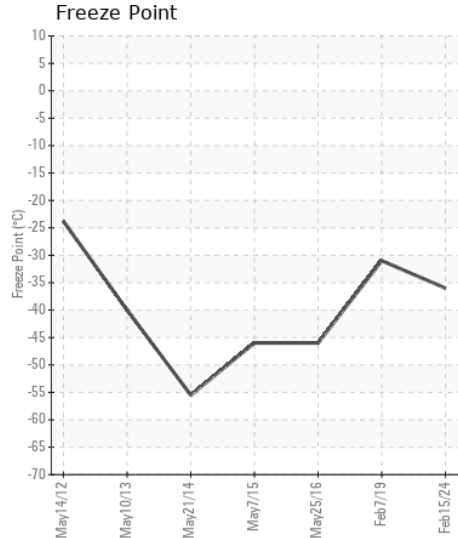
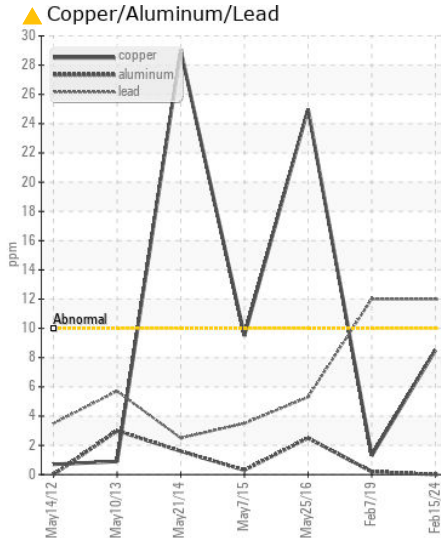
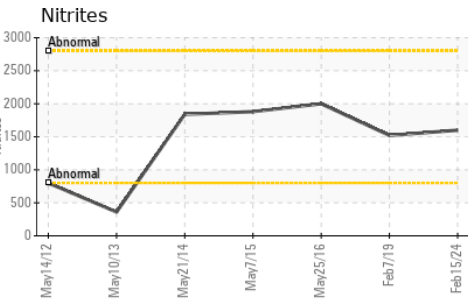
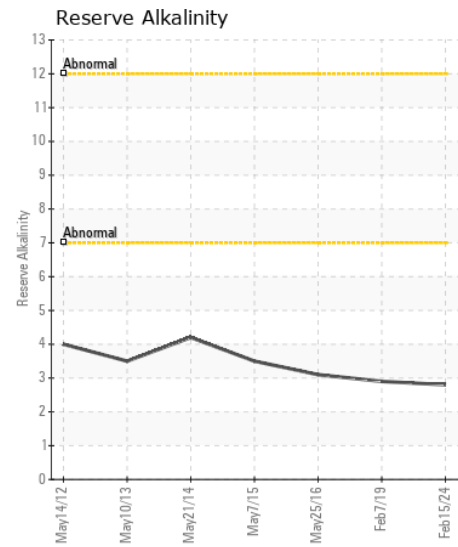
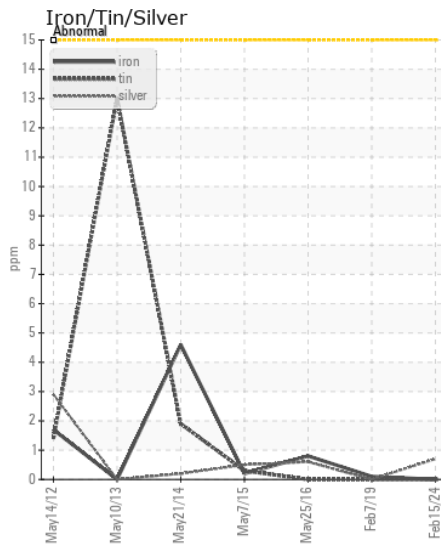
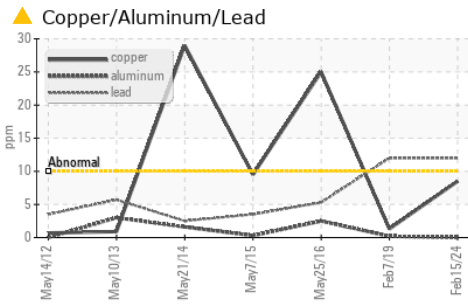
There is no indication of any contamination in the coolant.

Calcium	ppm	ASTM D5185(m)	>100	<1	2	4
Magnesium	ppm	ASTM D5185(m)	>40	<1	<1	6
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Coolant Appearance		Visual*	Clear	Clear	Clear	Clear

COOLANT CONDITION

The nitrite level is acceptable. The pH level of this fluid is within the acceptable limits.

Specific Gravity		ASTM D1298*		1.067	1.060	1.075
pH	Scale 0-14	ASTM D1287*	9.5	9.67	9.47	9.61
Nitrites	ppm	Alcan Test Kit*	1500	1600	1520	2000
Reserve Alkalinity	Scale 0-20	ASTM D1121*	8.5	2.8	2.9	3.1
Percentage Glycol	%	ASTM D3321*	50	49.2	44.0	56.0
Freezing Point	°C	ASTM D3321*	-40	-36	-31	-46
Carboxylate				---	---	---
Silicon	ppm	ASTM D5185(m)		40	29	22
Phosphorus	ppm	ASTM D5185(m)		23	45	100
Boron	ppm	ASTM D5185(m)		141	271	189
Molybdenum	ppm	ASTM D5185(m)		4	27	72
Sodium	ppm	ASTM D5185(m)		1858	1511	1832
Potassium	ppm	ASTM D5185(m)		208	394	976
Coolant Color		Visual*	Green	Green	Green	Pink



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0791167 **Received** : 16 Feb 2024
Lab Number : 02616480 **Tested** : 21 Feb 2024
Unique Number : 5733590 **Diagnosed** : 21 Feb 2024 - Kevin Marson
Test Package : COOL (Additional Tests: GlycolType)

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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.