



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

COOLANT REPORT

CORROSION	ABNORMAL
CONTAMINANTS	ABNORMAL
COOLANT CONDITION	ABNORMAL

Area

TTR [285519]

Machine Id

KOHLER 093370

Component

Coolant

Fluid

HYBRID (HOAT) COOLANT (--- LTR)

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		WA0021511	WA0019514	WA0017662
Sample Date		Client Info		04 Jun 2024	03 May 2023	04 May 2022
Machine Age	hrs	Client Info		735	691	642
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	SEVERE

CORROSION

Iron and lead ppm levels are abnormal. 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	▲ 44	▲ 362	11
Aluminum	ppm	ASTM D5185(m)	>10	0	2	3
Copper	ppm	ASTM D5185(m)	>10	0	8	▲ 219
Lead	ppm	ASTM D5185(m)	>10	▲ 47	▲ 44	▲ 13
Tin	ppm	ASTM D5185(m)	>10	<1	4	<1
Silver	ppm	ASTM D5185(m)	>10	<1	0	<1
Zinc	ppm	ASTM D5185(m)	>10	1	13	65

CONTAMINANTS

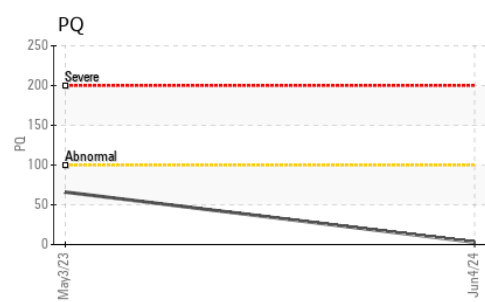
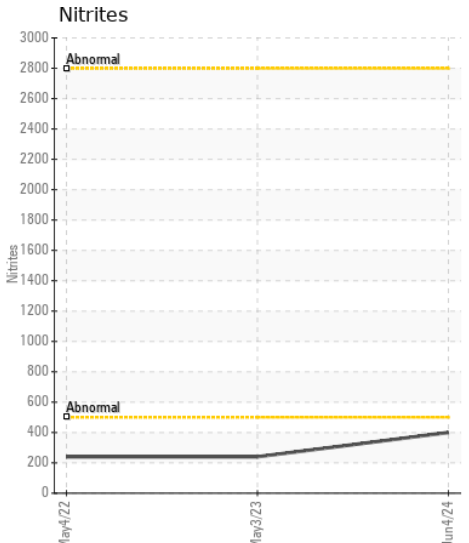
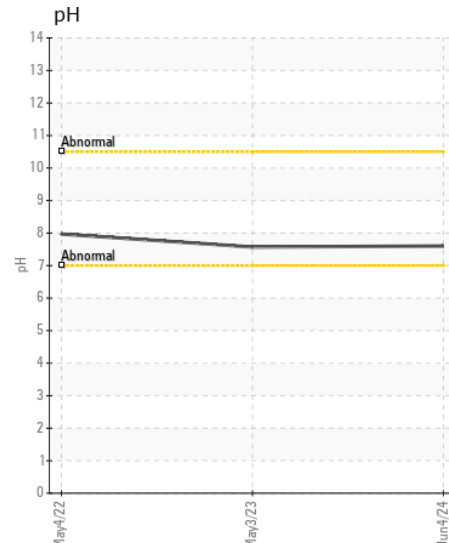
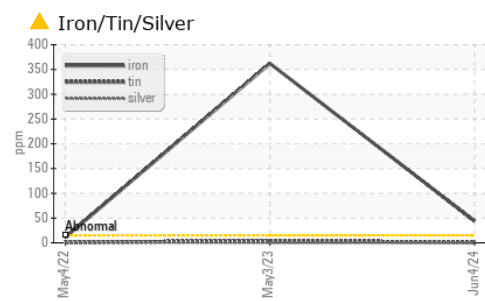
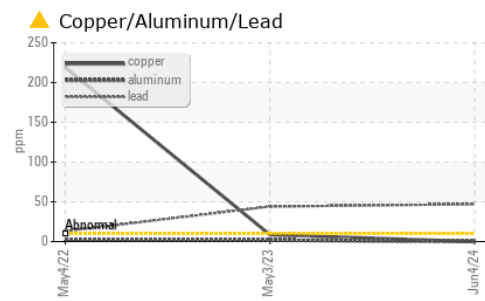
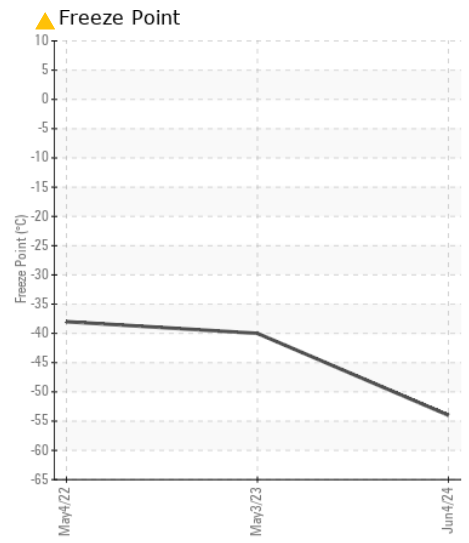
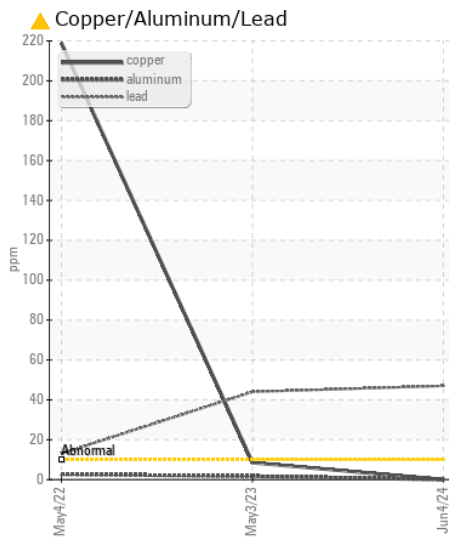
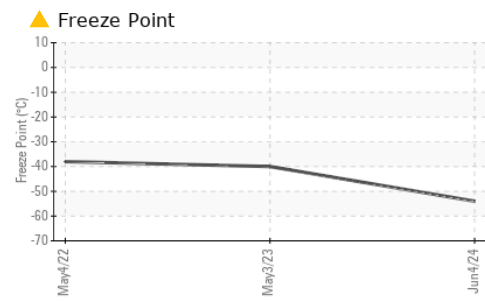
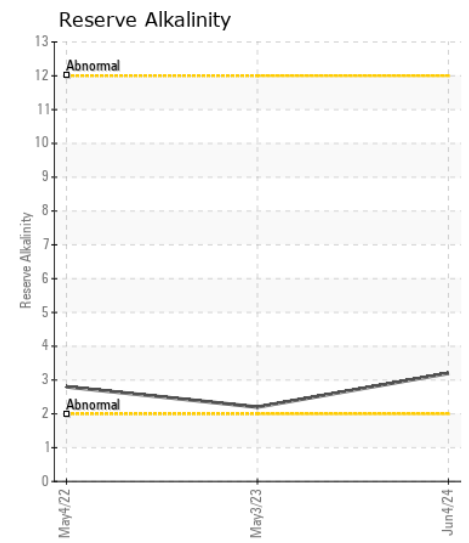
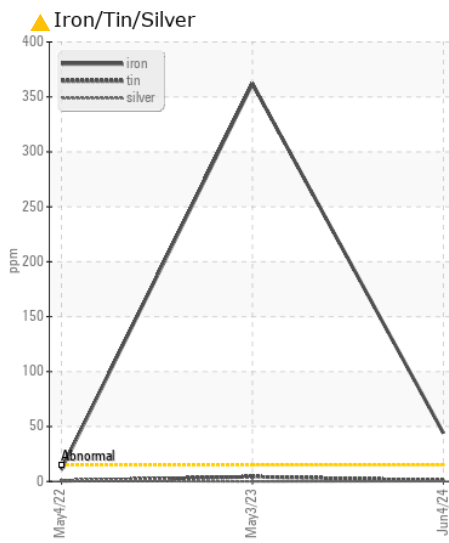
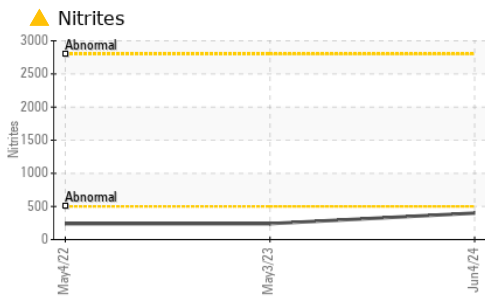
There is no indication of any contamination in the component(unconfirmed).

Calcium	ppm	ASTM D5185(m)	>100	6	4	3
Magnesium	ppm	ASTM D5185(m)	>40	2	2	3
Appearance	scalar	Visual*	NORML	NORML	▲ MILKY	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Coolant Appearance		Visual*	Clear	▲ Cloudy	▲ Opaque	▲ Cloudy

COOLANT CONDITION

The coolant is cloudy indicating either an overconcentration of coolant additives, or a mixing of incompatible coolant technologies. The glycol level is too high which leads to over-heating and additive drop-out. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable.

Boiling Point	°C	WC Method*		113	---	---
Specific Gravity		ASTM D1298*		1.086	1.070	1.069
pH	Scale 0-14	ASTM D1287*		7.60	7.57	7.97
Nitrites	ppm	Alcan Test Kit*		400	240	▲ 240
Reserve Alkalinity	Scale 0-20	ASTM D1121*		3.2	2.2	▲ 2.8
Percentage Glycol	%	ASTM D3321*		▲ 66.9	52.0	51.1
Freezing Point	°C	ASTM D3321*		▲ -54	-40	-38
Carboxylate				---	---	---
Silicon	ppm	ASTM D5185(m)		18	22	8
Phosphorus	ppm	ASTM D5185(m)		8	11	16
Boron	ppm	ASTM D5185(m)		32	105	99
Molybdenum	ppm	ASTM D5185(m)		15	<1	2
Sodium	ppm	ASTM D5185(m)		4085	1431	1341
Potassium	ppm	ASTM D5185(m)		478	1119	1270
Coolant Color		Visual*		Orange	Orange	Green



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021511 **Received** : 03 Jul 2024
Lab Number : 02645317 **Tested** : 04 Jul 2024
Unique Number : 5802856 **Diagnosed** : 04 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.