



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

COOLANT REPORT

CORROSION

ABNORMAL

CONTAMINANTS

ABNORMAL

COOLANT CONDITION

NORMAL

Area

TTR CHERRY [275720]

Machine Id

CAT 00C44KNCD00435 25KW at 240V

Component

Coolant

Fluid

DETROIT DIESEL POWER COOL PLUS (--- 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		WA0020693	WA0000025	HD0003212
Sample Date		Client Info		07 May 2024	24 Aug 2011	22 Feb 2011
Machine Age	hrs	Client Info		0	249	89
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

CORROSION

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

Iron	ppm	ASTM D5185(m)	>15	11	2	<1
Aluminum	ppm	ASTM D5185(m)	>10	▲ 16	<1	4
Copper	ppm	ASTM D5185(m)	>10	<1	▲ 65	<1
Lead	ppm	ASTM D5185(m)	>10	0	5	0
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Silver	ppm	ASTM D5185(m)	>10	<1	<1	0
Zinc	ppm	ASTM D5185(m)	>10	2	12	6

CONTAMINANTS

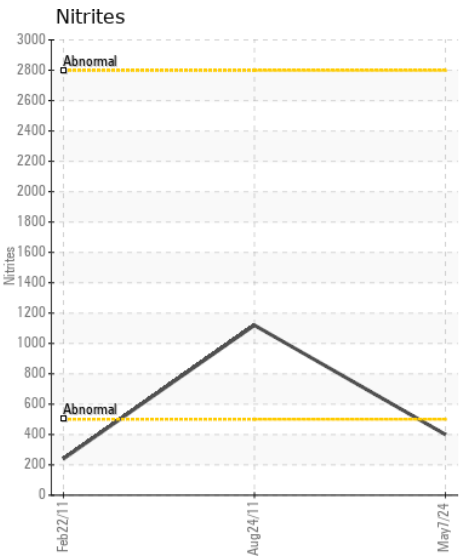
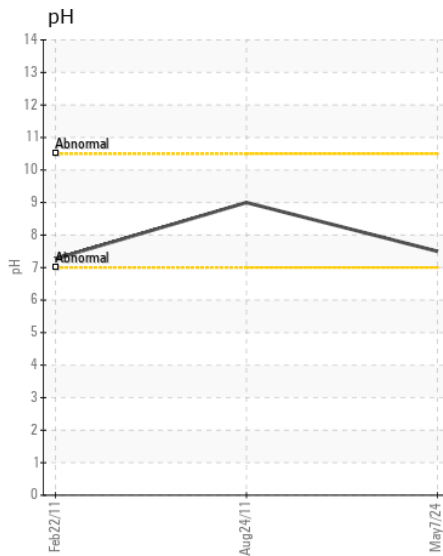
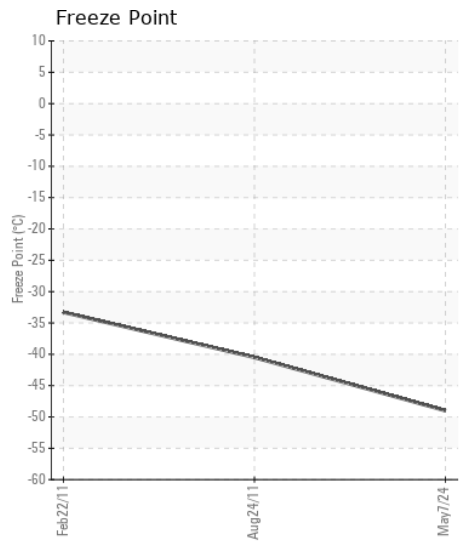
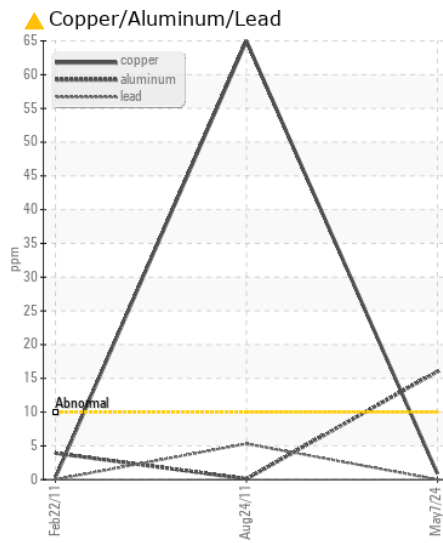
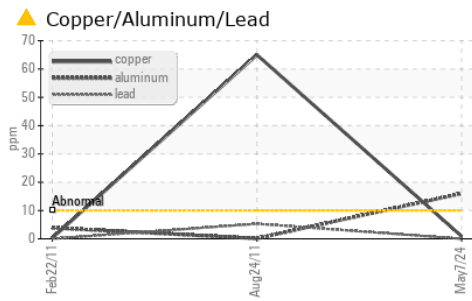
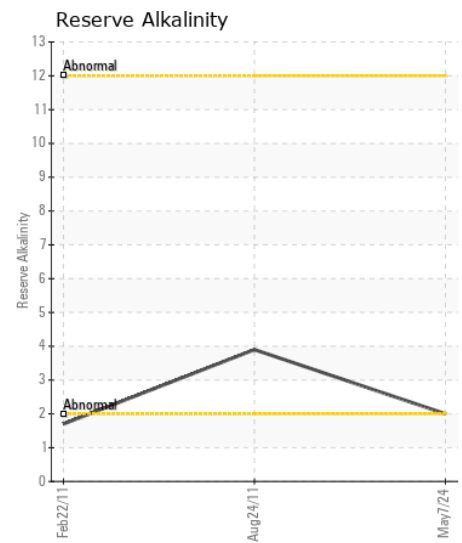
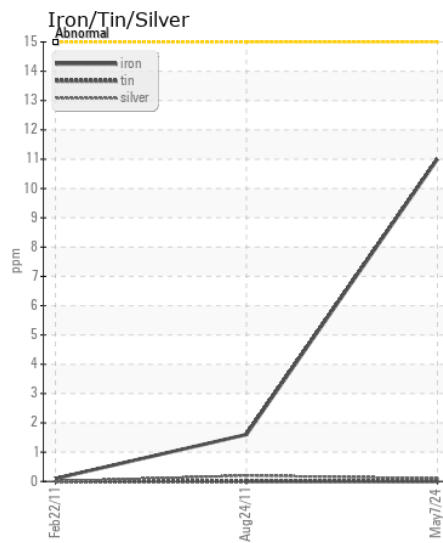
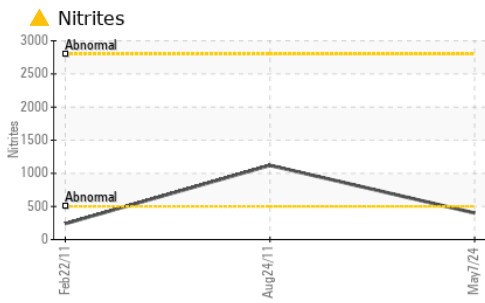
There is no indication of any contamination in the component(unconfirmed).

Calcium	ppm	ASTM D5185(m)	>100	4	2	1
Magnesium	ppm	ASTM D5185(m)	>40	3	2	6
Appearance	scalar	Visual*	NORML	▲ HAZY	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Coolant Appearance		Visual*	Clear	▲ Cloudy	Clear	Clear

COOLANT CONDITION

The coolant is cloudy indicating either an overconcentration of coolant additives, or a mixing of incompatible coolant technologies. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable.

Boiling Point	°C	WC Method*		109	---	---
Specific Gravity		ASTM D1298*		1.078	1.070	1.064
pH	Scale 0-14	ASTM D1287*	9.0	7.50	9.00	7.27
Nitrites	ppm	Alcan Test Kit*	0	400	1120	240
Reserve Alkalinity	Scale 0-20	ASTM D1121*		2.0	3.9	1.7
Percentage Glycol	%	ASTM D3321*	50	59.0	52.0	47.0
Freezing Point	°C	ASTM D3321*	-40	-49	-40.5	-33.3
Carboxylate				---	---	---
Silicon	ppm	ASTM D5185(m)		31	12	10
Phosphorus	ppm	ASTM D5185(m)	0	7	11	6
Boron	ppm	ASTM D5185(m)		169	230	8
Molybdenum	ppm	ASTM D5185(m)		10	2	554
Sodium	ppm	ASTM D5185(m)		2524	1555	3960
Potassium	ppm	ASTM D5185(m)		724	748	83
Coolant Color		Visual*	Red	Orange	Green	Red



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020693 **Received** : 16 May 2024
Lab Number : 02636219 **Tested** : 17 May 2024
Unique Number : 5785381 **Diagnosed** : 21 May 2024 - Kevin Marson
Test Package : COOL (Additional Tests: GlycolType)

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.