



COOLANT REPORT

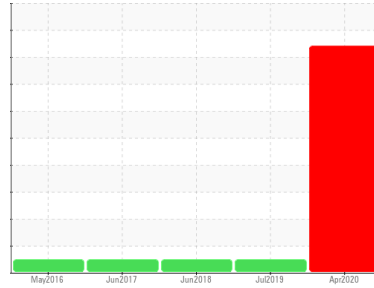
Sample Rating Trend

OFF SPEC



Area
[112534]
Machine Id
25398218

Component
Coolant
Fluid
FLEETGUARD ES COMPLEAT (--- GAL)



DIAGNOSIS

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. Recommend that you ensure the same technology coolant is being used for make-up. We recommend an early resample to monitor this condition.

Corrosion

The iron level is high indicating rust in the system which clogs the cooling system.

Contaminants

There is no indication of any contamination in the coolant.

Coolant Condition

The coolant is cloudy indicating either an overconcentration of coolant additives, or a mixing of incompatible coolant technologies. The nitrite level is acceptable. The glycol level is too high which leads to over-heating and additive drop-out. The specific gravity is higher than typical indicating the addition of a different type of coolant. The pH level of this fluid is within the acceptable limits.

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number				CU0015300	CU0014869	CU0013942
Sample Date				20 Apr 2020	23 Jul 2019	11 Jun 2018
Machine Age	hrs			145	110	82
Sample Status				SEVERE	NORMAL	NORMAL

PHYSICAL TEST RESULTS		method	limit/base	current	history 1	history 2
Specific Gravity	ASTM D1298	1.07	▲ 1.091	1.067	1.067	
pH	Scale 0-14 ASTM D1287	10.5	8.91	9.40	9.35	
Nitrites	ppm Alcan Test Kit		2360	1560	1240	
Reserve Alkalinity	Scale 0-20 ASMT D1121	5.0	7.5	6.8	7.1	
Percentage Glycol	% ASTM D3321		● 70.8	50.0	50.0	
Freezing Point	°C ASTM D3321	-37	● -64	-37	-37	
Carboxylate			---	---	---	

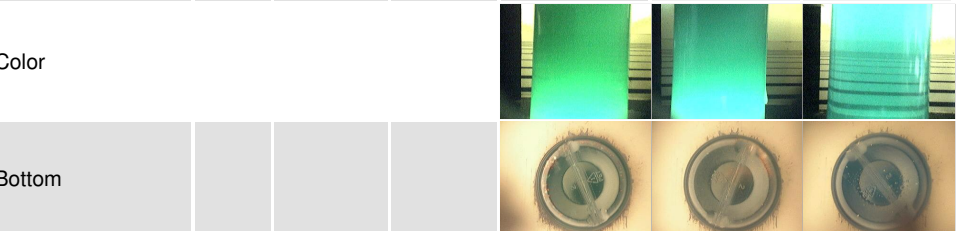
CORROSION INHIBITORS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)		44	63	61
Phosphorus	ppm	ASTM D5185(m)		1151	911	916
Boron	ppm	ASTM D5185(m)		408	285	262
Molybdenum	ppm	ASTM D5185(m)		672	527	481

CORROSION		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m)	>15	▲ 18	1	0
Aluminum	ppm	ASTM D5185(m)	>10	4	3	<1
Copper	ppm	ASTM D5185(m)	>10	1	2	<1
Lead	ppm	ASTM D5185(m)	>10	1	1	<1
Tin	ppm	ASTM D5185(m)	>10	<1	0	0
Silver	ppm	ASTM D5185(m)	>10	0	<1	0
Zinc	ppm	ASTM D5185(m)		2	4	<1

CARRIER SALTS		method	limit/base	current	history 1	history 2
Sodium	ppm	ASTM D5185(m)		2044	1283	1223
Potassium	ppm	ASTM D5185(m)		5486	3602	3586

SCALE PONTENTIAL		method	limit/base	current	history 1	history 2
Calcium	ppm	ASTM D5185(m)		4	1	<1
Magnesium	ppm	ASTM D5185(m)		<1	<1	<1

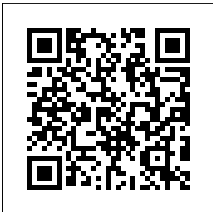
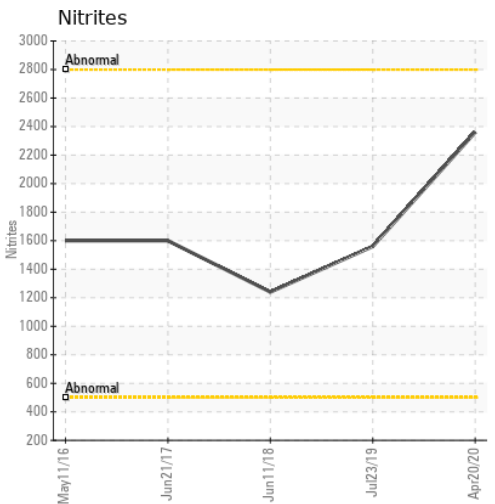
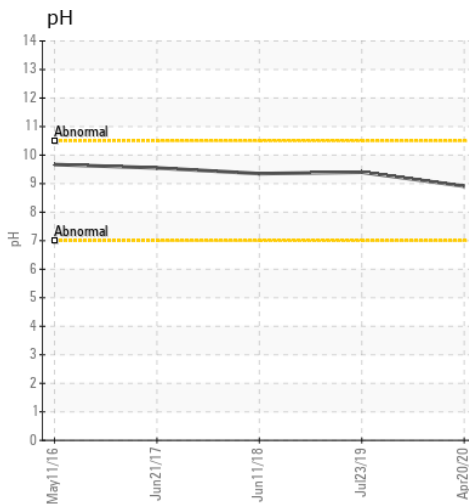
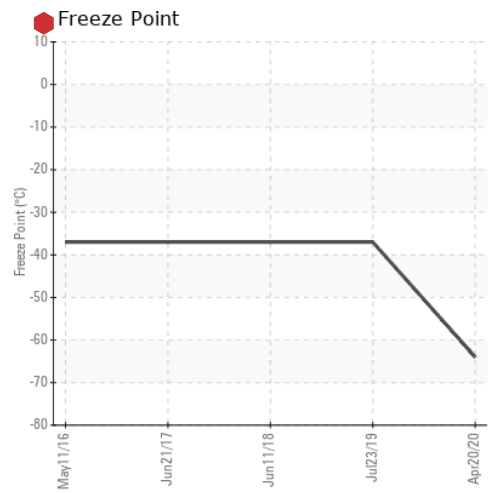
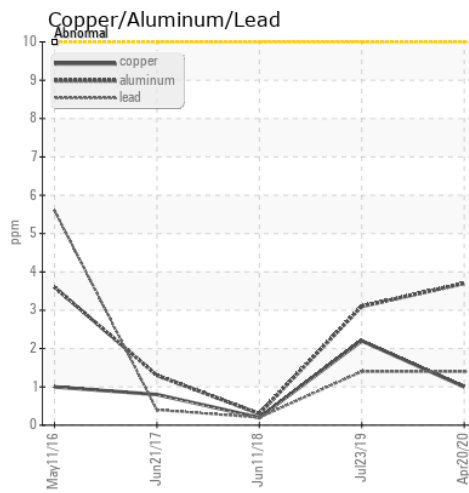
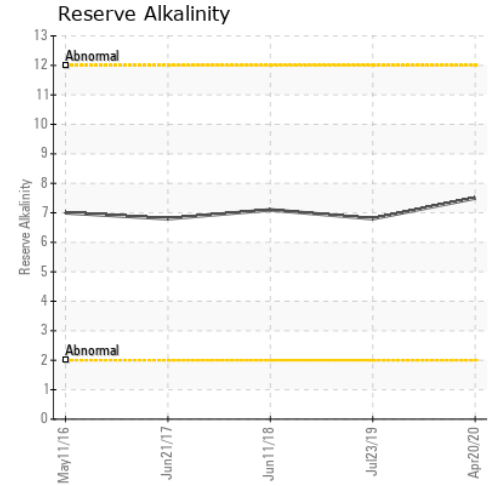
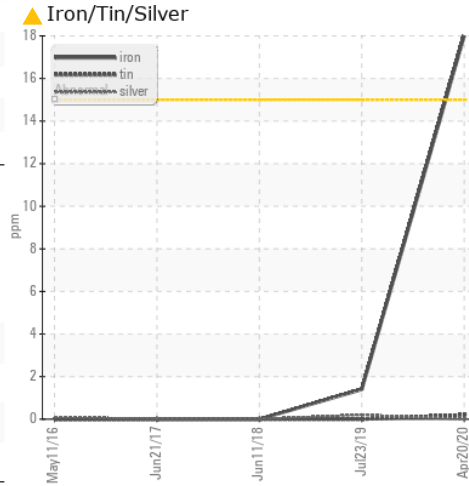
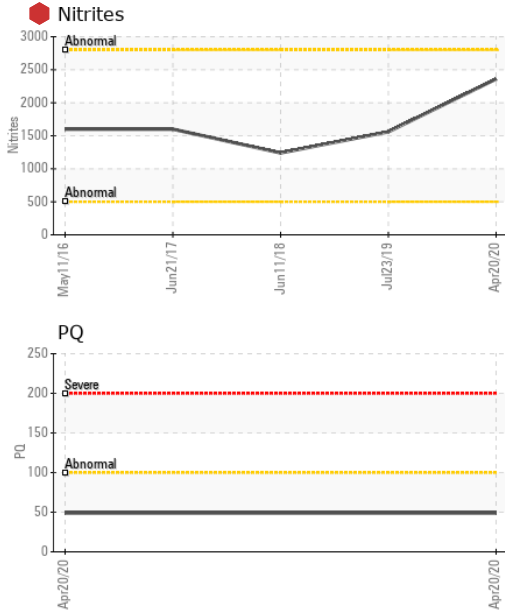
VISUAL		method	limit/base	current	history 1	history 2
Coolant Color	Visual	Blue		Green	Blue	Blue
Coolant Appearance	Visual	Clear		▲ Cloudy	Cloudy	Clear





COOLANT REPORT

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC1234567 **Received** : 24 Apr 2020
Lab Number : 01234567 **Diagnosed** : 27 Apr 2020
Unique Number : 12345678 **Diagnostician** : Kevin Marson
Test Package : COOL (Additional Tests: PQ)
*To discuss this sample report, contact Customer Service at 1-800-268-2131.
 (m) Denotes a modified test method, (e) Denotes a test conducted using an external laboratory.*

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