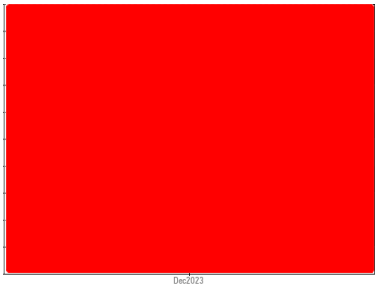
COOLANT REPORT

Sample Rating Trend



WEAR

Area
33 Elm Dr
Machine Id
NOUNITGTT0001304
Component
Coolant
Fluid
CONVENTIONAL COOLANT (--- 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. We recommend an early resample to monitor this condition.

Corrosion

Copper ppm levels are severe. The high metal levels indicate corrosion in the system.

Contaminants

There is no indication of any contamination in the coolant.

Coolant Condition

The reserve alkalinity of this fluid is lower than acceptable. The glycol level is too high which leads to over-heating and additive drop-out. The low nitrite level indicates reduced cavitation protection which leads to corrosion and ammonia formation. The pH level of this fluid is within the acceptable limits.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		GTT0001304	---	---
Sample Date		Client Info		15 Dec 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---

PHYSICAL TEST RESULTS		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*		1.089	---	---
pH	Scale 0-14	ASTM D1287*	9.5	9.17	---	---
Nitrites	ppm	Alcan Test Kit*	1500	▲ 760	---	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*	8.5	▲ 2.3	---	---
Percentage Glycol	%	ASTM D3321*	50	⬢ 69.0	---	---
Freezing Point	°C	ASTM D3321*	-40	⬢ -66	---	---
Carboxylate				---	---	---

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		2	---	---
Phosphorus	ppm	ASTM D5185(m)		2	---	---
Boron	ppm	ASTM D5185(m)		53	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---

CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	0	---	---
Aluminum	ppm	ASTM D5185(m)	>10	0	---	---
Copper	ppm	ASTM D5185(m)	>10	⬢ 85	---	---
Lead	ppm	ASTM D5185(m)	>10	<1	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Silver	ppm	ASTM D5185(m)	>10	1	---	---
Zinc	ppm	ASTM D5185(m)		1	---	---

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		2056	---	---
Potassium	ppm	ASTM D5185(m)		39	---	---

SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	6	---	---
Magnesium	ppm	ASTM D5185(m)	>40	10	---	---
Hardness	mg/L CaCO3	In-house*	<75	53	---	---

VISUAL		method	limit/base	current	history1	history2
Coolant Color		Visual*	Green	Green	---	---
Coolant Appearance		Visual*	Clear	Clear	---	---
Color					no image	no image
Bottom					no image	no image

COOLANT REPORT

GRAPHS

Sample No.	: GTT0001304	**Recieved**	: 03 Jan 2024
Lab Number	: 02606376	**Diagnosed**	: 16 Jan 2024
Unique Number	: 5707462	**Diagnostician**	: Bill Quesnel
Test Package	: COOL (Additional Tests: KF, KV40, TAN Man)		

To discuss this sample report, contact Customer Service at 1-905-847-9300 Ext 26.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Damages: Seller shall in no event be liable for special, incidental, or consequential damages, of a commercial nature, resulting from any cause.

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