

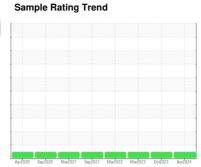
COOLANT REPORT



Machine Id Coopersville CAT 6 CPVM06BE

Jacket Water Coolant

CHEVRON HEAVY DUTY PF COOLANT (100 GAL)





Recommendation

The fluid is suitable for further service.

All metal levels are normal indicating no corrosion in the cooling system.

Contaminants

There is no indication of any contamination in the coolant.

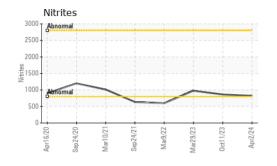
Coolant Condition

Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.

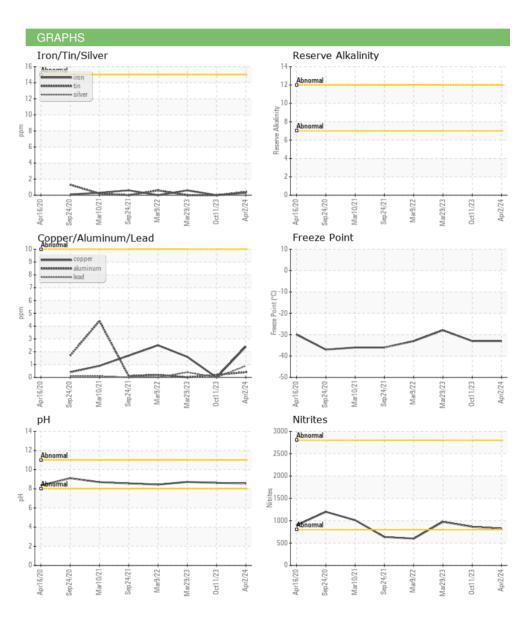
SAMPLE INFORMATION method limit/base current history1 history2	PF COOLANT (10	U GAL)	Aprzuzu S	ep2020 Mar2021 Sep20	21 Mar2022 Mar2023 Oct2023	Aprzuz4	
Sample Date Client Info 02 Apr 2024 11 Oct 2023 29 Mar 2023 Machine Age hrs Client Info 31824 27686 23179 Oil Age hrs Client Info 0 0 0 0 Oil Changed hrs Client Info Not Changd Not Changd NI/A Not Changed No	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 31824 27686 23179 Oil Age hrs Client Info 0 0 0 Oil Changed Client Info Not Changd NVC Changd NVA Sample Status NORMAL NORMAL NORMAL NORMAL PHYSICAL TEST RESULTS method limit/base current history1 history2 Glycol Type FT-IR Specific Gravity "ASTM D1287 10.5 8.56 8.61 8.72 Nitrites ppm AP-053:2009 >800 824 864 976 Reserve Alkalinity Scale 0:20 "ASTM D1121	Sample Number		Client Info		WC0871557	WC0819478	WC0765308
Oil Age hrs Client Info Not Changd Not Changd Not Changd Not Changd Nor Changd As Changd Nor Changd As Changd Nor Changd	Sample Date		Client Info		02 Apr 2024	11 Oct 2023	29 Mar 2023
Oil Changed Cilient Info Not Changd NORMAL NORMAL	Machine Age	hrs	Client Info		31824	27686	23179
Sample Status	Oil Age	hrs	Client Info		0	0	0
PHYSICAL TEST RESULTS method limit/base current history1 history2	Oil Changed		Client Info		Not Changd	Not Changd	N/A
Specific Gravity	Sample Status				NORMAL	NORMAL	NORMAL
Specific Gravity	PHYSICAL TEST R	ESULTS	method	limit/base	current	history1	history2
pH Scale 0-14 ASTM D1287 10.5 8.56 8.61 8.72 Nitrites ppm AP-053:2009 >800 824 864 976 Reserve Alkalinity Scale 0-20 "ASTM D321 50 49.2 49.2 47.5 Freezing Point °F ASTM D3321 -37 -33 -33 -28 Total Dissolved Solids Carboxylate ASTM D3321 -37 -33 -33 -28 CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 1000 66 65 84 Phosphorus ppm ASTM D6130 10 5 13 Boron ppm ASTM D6130 393 321 606 Molybdenum ppm ASTM D6130 253 199 368 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 10 <th>Glycol Type</th> <td></td> <td>FT-IR</td> <td></td> <th></th> <td></td> <td></td>	Glycol Type		FT-IR				
Nitrites	Specific Gravity		*ASTM D1298		1.067	1.067	1.064
Reserve Alkalinity	pН	Scale 0-14	ASTM D1287	10.5	8.56	8.61	8.72
Percentage Glycol %	Nitrites	ppm	AP-053:2009	>800	824	864	976
Freezing Point °F ASTM D3321 -37 -33 -33 -28 Total Dissolved Solids Carboxylate n/a n/a n/a n/a CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 1000 66 65 84 Phosphorus ppm ASTM D6130 0 10 5 13 383 321 606 Molybedenum ppm ASTM D6130 >15 <1 0 1 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >10 <1 <1 0 <1 Coper	Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids	Percentage Glycol	%	ASTM D3321	50	49.2	49.2	47.5
Carboxylate n/a n/a n/a n/a CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 1000 66 65 84 Phosphorus ppm ASTM D6130 0 10 5 13 Boron ppm ASTM D6130 393 321 606 Molybdenum ppm ASTM D6130 253 199 368 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 <1 0 <1 Aluminum ppm ASTM D6130 >10 <1 <1 0 Copper ppm ASTM D6130 >10 <1 0 <1 Lead ppm ASTM D6130 >10 <1 0 <1 Zinc ppm ASTM D6130 0 0 0 0 CONTAMINANTS <th>Freezing Point</th> <th>°F</th> <th>ASTM D3321</th> <th>-37</th> <th>-33</th> <th>-33</th> <th>-28</th>	Freezing Point	°F	ASTM D3321	-37	-33	-33	-28
CORROSION INHIBITORS method limit/base current history1 history2	Total Dissolved Solids				243.5	253.0	247.0
Silicon ppm ASTM D6130 1000 66 65 84 Phosphorus ppm ASTM D6130 0 10 5 13 Boron ppm ASTM D6130 393 321 606 Molybdenum ppm ASTM D6130 253 199 368 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 <1 0 <1 Aluminum ppm ASTM D6130 >10 <1 <1 0 Copper ppm ASTM D6130 >10 <1 0 <1 Lead ppm ASTM D6130 >10 <1 0 <1 Tin ppm ASTM D6130 >10 <1 0 0 Zinc ppm ASTM D6130 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 <th>Carboxylate</th> <th></th> <th></th> <th></th> <th>n/a</th> <th>n/a</th> <th>n/a</th>	Carboxylate				n/a	n/a	n/a
Phosphorus ppm ASTM D6130 0 10 5 13 Boron ppm ASTM D6130 393 321 606 Molybdenum ppm ASTM D6130 253 199 368 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 <1	CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Boron ppm ASTM D6130 393 321 606 Molybdenum ppm ASTM D6130 253 199 368 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 <1 0 <1 Aluminum ppm ASTM D6130 >10 <1 <1 0 Copper ppm ASTM D6130 >10 2 0 2 Lead ppm ASTM D6130 >10 <1 0 <1 Tin ppm ASTM D6130 >10 <1 0 0 Zinc ppm ASTM D6130 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 2481 1921 3211 Potassium ppm ASTM D6130 68 13 172 SCALE POTEN	Silicon	ppm	ASTM D6130	1000	66	65	84
Molybdenum ppm ASTM D6130 253 199 368 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 <1 0 <1 Aluminum ppm ASTM D6130 >10 <1 <1 0 Copper ppm ASTM D6130 >10 <1 0 <1 Lead ppm ASTM D6130 >10 <1 0 <1 Tin ppm ASTM D6130 >10 <1 0 0 Zinc ppm ASTM D6130 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 2481 1921 3211 Potassium ppm ASTM D6130 68 13 172 SCALE POTENTIAL method limit/base current history1 history2	Phosphorus	ppm	ASTM D6130	0	10	5	13
CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 <1 0 <1 Aluminum ppm ASTM D6130 >10 <1 <1 0 Copper ppm ASTM D6130 >10 2 0 2 Lead ppm ASTM D6130 >10 <1 0 <1 Tin ppm ASTM D6130 >10 <1 0 0 Zinc ppm ASTM D6130 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 20 4 58 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 68 13 172 SCALE POTENTIAL method limit/base current history1 history2 <tr< th=""><th>Boron</th><th>ppm</th><th>ASTM D6130</th><th></th><th>393</th><th>321</th><th>606</th></tr<>	Boron	ppm	ASTM D6130		393	321	606
Iron ppm ASTM D6130 >15 <1 0 <1 Aluminum ppm ASTM D6130 >10 <1 <1 0 Copper ppm ASTM D6130 >10 2 0 2 Lead ppm ASTM D6130 >10 <1 0 <1 Tin ppm ASTM D6130 >10 <1 0 0 Zinc ppm ASTM D6130 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 2481 1921 3211 Potassium ppm ASTM D6130 68 13 172 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 <1 <1 4	Molybdenum	ppm	ASTM D6130		253	199	368
Aluminum ppm ASTM D6130 >10 <1	CORROSION		method	limit/base	current	history1	history2
Copper ppm ASTM D6130 >10 2 0 2 Lead ppm ASTM D6130 >10 <1 0 <1 Tin ppm ASTM D6130 >10 <1 0 0 Zinc ppm ASTM D6130 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 20 4 58 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 2481 1921 3211 Potassium ppm ASTM D6130 68 13 172 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 <1 4	Iron	ppm	ASTM D6130	>15	<1	0	<1
Lead ppm ASTM D6130 >10 <1	Aluminum	ppm	ASTM D6130	>10	<1	<1	0
Tin ppm ASTM D6130	Copper	ppm	ASTM D6130	>10	2	0	2
Zinc ppm ASTM D6130 0 0 0 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 20 4 58 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 2481 1921 3211 Potassium ppm ASTM D6130 68 13 172 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1	Lead	ppm	ASTM D6130	>10	<1	0	<1
CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 20 4 58 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 2481 1921 3211 Potassium ppm ASTM D6130 68 13 172 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 <1 4	Tin	ppm	ASTM D6130	>10	<1		
Chlorine ppm ASTM D6130 20 4 58 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 2481 1921 3211 Potassium ppm ASTM D6130 68 13 172 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 <1 4	Zinc	ppm	ASTM D6130		0	0	0
CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 2481 1921 3211 Potassium ppm ASTM D6130 68 13 172 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 <1 4	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D6130 2481 1921 3211 Potassium ppm ASTM D6130 68 13 172 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1	Chlorine	ppm	ASTM D6130		20	4	58
Potassium ppm ASTM D6130 68 13 172 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 <1 4	CARRIER SALTS		method	limit/base	current	history1	history2
SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 <1 4	Sodium	ppm	ASTM D6130		2481	1921	3211
Calcium ppm ASTM D6130 <1	Potassium	ppm	ASTM D6130		68	13	172
PP 1 1 1 1 1	SCALE POTENTI	AL	method	limit/base	current	history1	history2
Magnesium ppm ASTM D6130 <1	Calcium	ppm	ASTM D6130		<1	<1	4
	Magnesium	ppm	ASTM D6130		<1	<1	<1



COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual	Grn/Prpl	Orange	Pink	Pink
Coolant Appearance	*Visual	Clear	normal	normal	normal
Color					
Bottom					







Certificate 12367

Laboratory

Sample No. Lab Number : 06140420

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0871557

Received **Tested**

: 05 Apr 2024 : 10 Apr 2024

EDL NA Recips-Coopersville Coopersville Powerstation, 15362 68th Avenue

Coopersville, MI US 49404

Unique Number : 10965228 Diagnosed : 10 Apr 2024 - Jonathan Hester Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Submitted By: Chad Conroy

daniel.young@edlenergy.com

Contact: Daniel Young

T:

F: