

COOLANT REPORT

Sample Rating Trend

NORMAL



Machine Id Coopersville CAT 7 CPVM07BE Component Jacket Water Coolant

CHEVRON HEAVY DUTY PF COOLANT (--- GAL)

Recommendation

The fluid is suitable for further service.

Corrosion

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

Contaminants

There is no indication of any contamination in the coolant.

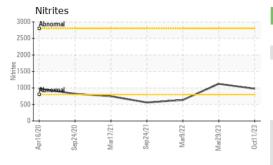
Coolant Condition

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

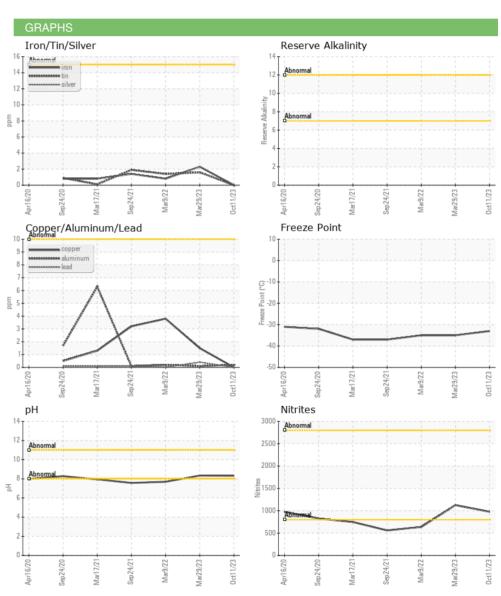
SAMPLE INFORMATION	PF COOLANT (- GAL)	Apr2020	Sep2020 Mar2021	Sep 2021 Mar 2022 Mar 2023	0ct2023	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 103783 66590 102829 Oil Age hrs Client Info 0 448 8760 Oil Changed Client Info Not Changd Not Stangd	Sample Number		Client Info		WC0819479	WC0765307	WC0508683
Oil Age hrs Client Info Not Changd Not Changed Changed Not Changed Not Changed Not Changed NORMAL Not Changed Not Changed Not Changed Not Changed Not Changed NormAL Not Changed NorMAL Not Changed Not Changed Not Changed Not Changed NormAL Not Changed Not Changed Not Changed Not Changed Not Changed NormAL Not Changed Not Changed Not Changed Not Changed NormAL Not Changed Not Changed Not Changed Not Changed NormAL Not Changed Not Changed Not Changed Not Changed Not Changed NormAL Not	Sample Date		Client Info		11 Oct 2023	29 Mar 2023	09 Mar 2022
Oil Changed Sample Status Client Info Not Changd NORMAL Changed NORMAL Not Changd NORMAL PHYSICAL TEST RESULTS method Imit/base current history1 history2 Specific Gravity "ASTM D1298" 1.067 1.068 1.068 pH Scale 0-14 ASTM D1287 10.5 8.32 8.34 7.69 Nitrites ppm AP-053:2009 >800 976 1124 636 Reserve Alkalinity Scale 0-20 ASTM D321	Machine Age	hrs	Client Info		103783	66590	102829
NORMAL NORMAL NORMAL NORMAL	Oil Age	hrs	Client Info		0	448	8760
PHYSICAL TEST RESULTS method limit/base current history1 history2	Oil Changed		Client Info		Not Changd	Changed	Not Changd
Specific Gravity	Sample Status				NORMAL	NORMAL	NORMAL
PH	PHYSICAL TEST R	ESULTS	method	limit/base	current	history1	history2
Nitrites	Specific Gravity				1.067	1.068	1.068
Reserve Alkalinity	рН	Scale 0-14	ASTM D1287	10.5	8.32	8.34	7.69
Percentage Glycol % ASTM D3321 50 49.9 50.3 50.4 Freezing Point °F ASTM D3321 -37 -33 -35 -35 Total Dissolved Solids 232.0 226.0 255.5 Carboxylate n/a n/a n/a CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 1000 34 118 105 Phosphorus ppm ASTM D6130 0 5 24 6 Boron ppm ASTM D6130 120 131 426 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 2 <1	Nitrites	ppm	AP-053:2009	>800	976	1124	636
Freezing Point °F ASTM D3321 -37 -33 -35 -35 Total Dissolved Solids 232.0 226.0 255.5 Carboxylate n/a n/a n/a CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 1000 34 118 105 Phosphorus ppm ASTM D6130 0 5 24 6 Boron ppm ASTM D6130 276 502 663 Molybdenum ppm ASTM D6130 120 131 426 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >10 <1 <1 <1 Aluminum ppm ASTM D6130 >10 0 2 4 Lead ppm ASTM D6130 >10 0 2 1 Zinc ppm ASTM D6130	•	Scale 0-20					
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 34 118 105 Phosphorus ppm ASTM D6130 0 5 24 6 Boron ppm ASTM D6130 276 502 663 Molybdenum ppm ASTM D6130 120 131 426 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 2 <1 Aluminum ppm ASTM D6130 >10 <1 <1 <1 Copper ppm ASTM D6130 >10 0 <1 0 Lead ppm ASTM D6130 >10 0 <1 0 Tin ppm ASTM D6130 0 2 2 2 CONTAMINANTS	•	°F	ASTM D3321	-37			
CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 1000 34 118 105 Phosphorus ppm ASTM D6130 0 5 24 6 Boron ppm ASTM D6130 276 502 663 Molybdenum ppm ASTM D6130 120 131 426 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 2 <1 Aluminum ppm ASTM D6130 >10 <1 <1 <1 Copper ppm ASTM D6130 >10 0 2 4 Lead ppm ASTM D6130 >10 0 2 1 Zinc ppm ASTM D6130 0 2 2 2 CONTAMINANTS method limit/base current history1 history2							
Silicon	Carboxylate				n/a	n/a	n/a
Phosphorus ppm ASTM D6130 0 5 24 6 Boron ppm ASTM D6130 276 502 663 Molybdenum ppm ASTM D6130 120 131 426 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 2 <1 Aluminum ppm ASTM D6130 >10 <1 <1 <1 Copper ppm ASTM D6130 >10 0 2 4 Lead ppm ASTM D6130 >10 0 <1 0 Tin ppm ASTM D6130 >10 0 2 1 Zinc ppm ASTM D6130 0 2 2 2 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 1747 2941 1915	CORROSION INHI	IBITORS	method	limit/base	current	history1	history2
Boron	Silicon	ppm	ASTM D6130	1000	-	118	105
Molybdenum ppm ASTM D6130 120 131 426 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 2 <1 Aluminum ppm ASTM D6130 >10 <1 <1 <1 Copper ppm ASTM D6130 >10 0 2 4 Lead ppm ASTM D6130 >10 0 <1 0 Tin ppm ASTM D6130 >10 0 2 1 Zinc ppm ASTM D6130 0 2 2 2 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 1747 2941 1915 Potassium ppm ASTM D6130 29 129 90 SCALE POTENTIAL method limit/base current history1 history2 <t< th=""><th>Phosphorus</th><th>ppm</th><th>ASTM D6130</th><th>0</th><th>5</th><th>24</th><th>6</th></t<>	Phosphorus	ppm	ASTM D6130	0	5	24	6
CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 2 <1 Aluminum ppm ASTM D6130 >10 <1 <1 <1 Copper ppm ASTM D6130 >10 0 2 4 Lead ppm ASTM D6130 >10 0 <1 0 Tin ppm ASTM D6130 >10 0 2 1 Zinc ppm ASTM D6130 0 2 2 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 0 23 885 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 1747 2941 1915 Potassium ppm ASTM D6130 29 129 90 SCALE POTENTIAL	Boron	ppm	ASTM D6130		276		
Iron ppm ASTM D6130 >15 0 2 <1	Molybdenum	ppm	ASTM D6130		120	131	426
Aluminum ppm ASTM D6130 >10 <1	CORROSION		method	limit/base	current	history1	history2
Copper ppm ASTM D6130 >10 0 2 4 Lead ppm ASTM D6130 >10 0 <1	Iron		ASTM D6130	>15	0	2	<1
Lead ppm ASTM D6130 >10 0 <1	Aluminum	ppm	ASTM D6130	>10	<1		
Tin ppm ASTM D6130 bloom >10 0 2 1 Zinc ppm ASTM D6130 bloom 0 2 2 2 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 0 23 885 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 1747 2941 1915 Potassium ppm ASTM D6130 29 129 90 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1	• •				-		
Zinc ppm ASTM D6130 0 2 2 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 0 23 885 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 1747 2941 1915 Potassium ppm ASTM D6130 29 129 90 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1					-		
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Chlorine ppm ASTM D6130 0 23 885 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 1747 2941 1915 Potassium ppm ASTM D6130 29 129 90 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 4 1	Zinc	ppm	ASTM D6130		0	2	2
CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 1747 2941 1915 Potassium ppm ASTM D6130 29 129 90 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 4 1	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D6130 1747 2941 1915 Potassium ppm ASTM D6130 29 129 90 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1	Chlorine	ppm	ASTM D6130		0	23	885
Potassium ppm ASTM D6130 29 129 90 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 4 1	CARRIER SALTS		method	limit/base	current	history1	history2
SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 4 1	Sodium	ppm	ASTM D6130		1747	2941	1915
Calcium ppm ASTM D6130 <1	Potassium	ppm	ASTM D6130		29	129	90
pp no	SCALE POTENTI	AL	method	limit/base	current	history1	history2
Magnesium ppm ASTM D6130 <1 <1 <1	Calcium	ppm	ASTM D6130		<1	4	1
	Magnesium	ppm	ASTM D6130		<1	<1	<1



COOLANT REPORT



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







Laboratory Sample No. Lab Number Unique Number

: WC0819479 : 05980098 : 10697393

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

: 16 Oct 2023 Diagnosed : 19 Oct 2023 Diagnostician : Jonathan Hester

Test Package : COOL- (Additional Tests: COOL, ICP)

Coopersville, MI US 49404 Contact: Daniel Young

Coopersville Powerstation, 15362 68th Avenue

daniel.young@edlenergy.com T:

EDL NA Recips-Coopersville

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

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