

COOLANT REPORT

Sample Rating Trend





Grand Blanc CAT 2 GBLM02BE Auxiliary Circuit Coolant Fluid CHEVRON HEAVY DUTY PF COOLANT (--- GAL)

Sample NumberClient InfoWC0905658WC0870102Sample DateClient Info04 Apr 202403 Nov 2023Machine AgehrsClient Info120618635Oil AgehrsClient Info120618635Oil AgehrsClient Info120618635Oil ChangedClient Info120618635Sample StatusImsClient InfoNORMALNORMALSample StatusImsImsNORMALNORMALNORMALAre acceptable. The pHFT-IRImsIms1.0671.067are acceptable limits.pHScale/14ASTM D128710.59.319.22NitritesppmAP-053:2009>80014641352Reserve AlkalinityScale/20'ASTM D1287ImsImsImsPercentage Glycol%ASTM D33215049.950.0Freezing Point'FASTM D332150229.5229.5CarboxylatepmASTM D613010004241PhosphorusppmASTM D613010004241PhosphorusppmASTM D6130100145BoronppmASTM D613010000InonppmASTM D613051000AluminumppmASTM D6130510001IcarboxylateppmASTM D6130510001Icarboxylate<	WC0795376 05 Apr 2023 3813 3813 N/A NORMAL
sample. First after change.)Machine Age Oil AgehrsClient Info120618635Oil AgehrsClient Info120618635Oil ChangedClient Info120618635Oil ChangedClient InfoChangedChangedSample StatusImageClient InfoNORMALNORMALf any contamination in thePHYSICAL TEST RESULTSmethodImit/basecurrenthistory1Glycol TypeFT-IRSpecific GravityYASTM D12981.0671.0671.067are acceptable. The pH n the acceptable limits.Scale 014ASTM D128710.59.319.22NitritespmAP-053:2009>80014641352Reserve AlkalinityScale 020YASTM D1121Percentage Glycol%ASTM D1321-37-33-35Total Dissolved SolidsImit/basecurrenthistory1SiliconppmASTM D613010004241PhosphorusppmASTM D61301004241PhosphorusppmASTM D613010042210OCORROSIONppmASTM D6130100145BoronppmASTM D613010000QuiptedppmASTM D61301001IronppmASTM D6130>1000QuiptedppmASTM D6130>1001 </td <td>3813 3813 N/A</td>	3813 3813 N/A
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Glycol Type FT-IR Specific Gravity *ASTM D1298 1.067 1.067 are acceptable. The pH Scale 0.14 ASTM D1287 10.5 9.31 9.22 Nitrites ppm AP-053:2009 >800 1464 1352 Reserve Alkalinity Scale 0.20 'ASTM D1281 50 49.9 50.0 Freezing Point °F ASTM D3321 50 49.9 50.0 Freezing Point °F ASTM D3321 -37 -33 -35 Total Dissolved Solids	
Glycol Type FT-IR Specific Gravity 'ASTM D1298 1.067 1.067 pH Scale 0.14 ASTM D1287 10.5 9.31 9.22 Ntrites ppm AP-053:2009 >800 1464 1352 Reserve Alkalinity Scale 0.20 'ASTM D121 Percentage Glycol % ASTM D3321 50 49.9 50.0 Freezing Point °F ASTM D3321 -37 -33 -35 Total Dissolved Solids 1/4 7/4 7/4 Silicon ppm ASTM D6130 1000 42 41 Phosphorus ppm ASTM D6130 1000 42 41 Phosphorus ppm ASTM D6130 0 144 5 Boron ppm ASTM D6130 1000 42 41 Phosphorus ppm ASTM D6130 0 14 5 Boron ppm ASTM D6130 100 0 0 Iron ppm ASTM D6130 >1	history2
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Reserve Alkalinity Scale 0.20 *ASTM D1121 Percentage Glycol % ASTM D3321 50 49.9 50.0 Freezing Point °F ASTM D3321 -37 -33 -35 Total Dissolved Solids 295.0 229.5 Carboxylate n/a n/a n/a CORROSION INHIBITORS method limit/base current history1 Silicon ppm ASTM D6130 1000 42 41 Phosphorus ppm ASTM D6130 0 14 5 Boron ppm ASTM D6130 0 144 5 Molybdenum ppm ASTM D6130 225 210 CORROSION method limit/base current history1 Iron ppm ASTM D6130 >15 0 0 Aluminum ppm ASTM D6130 >10 0 0 Copper ppm ASTM D6130 >10 0 <1	9.37
Percentage Glycol % ASTM D3321 50 49.9 50.0 Freezing Point °F ASTM D3321 -37 -33 -35 Total Dissolved Solids 295.0 229.5 Carboxylate n/a n/a n/a n/a Silicon ppm ASTM D6130 1000 42 41 Phosphorus ppm ASTM D6130 1000 42 41 Phosphorus ppm ASTM D6130 0 14 5 Boron ppm ASTM D6130 0 14 5 Molybdenum ppm ASTM D6130 225 210 CORROSION method limit/base current history1 Iron ppm ASTM D6130 >15 0 0 Aluminum ppm ASTM D6130 >10 0 0 Copper ppm ASTM D6130 >10 0 <1	1428
Freezing Point°FASTM D3321-37-33-35Total Dissolved Solids295.0229.5Carboxylaten/an/an/aCORROSION INHIBITORS method limit/base currenthistory1SiliconppmASTM D613010004241PhosphorusppmASTM D61300145BoronppmASTM D61300145MolybdenumppmASTM D6130225210CORROSIONmethodlimit/basecurrenthistory1IronppmASTM D6130>1500AluminumppmASTM D6130>1000CopperppmASTM D6130>100<1	
Freezing Point°FASTM D3321-37-33-35Total Dissolved Solids295.0229.5Carboxylaten/an/an/aCORROSION INHIBITORS method limit/base currenthistory1SiliconppmASTM D613010004241PhosphorusppmASTM D61300145BoronppmASTM D61300145MolybdenumppmASTM D6130225210CORROSIONmethodlimit/basecurrenthistory1IronppmASTM D6130>1500AluminumppmASTM D6130>1000CopperppmASTM D6130>100<1	49.7
Total Dissolved Solids295.0229.5Carboxylaten/an/aCORROSION INHIBITORSmethodlimit/basecurrentSiliconppmASTM D613010004241PhosphorusppmASTM D61300145BoronppmASTM D61300145MolybdenumppmASTM D6130225210CORROSIONmethodlimit/basecurrenthistory1IronppmASTM D6130>1500AluminumppmASTM D6130>1000CopperppmASTM D6130>100<1	-33
CORROSION INHIBITORS methodlimit/basecurrenthistory1SiliconppmASTM D613010004241PhosphorusppmASTM D61300145BoronppmASTM D61300357332MolybdenumppmASTM D613010225210CORROSIONmethodlimit/basecurrenthistory1IronppmASTM D6130>1500AluminumppmASTM D6130>1000CopperppmASTM D6130>10<1	233.5
Silicon ppm ASTM D6130 1000 42 41 Phosphorus ppm ASTM D6130 0 14 5 Boron ppm ASTM D6130 0 14 5 Boron ppm ASTM D6130 0 14 5 Molybdenum ppm ASTM D6130 225 210 CORROSION method limit/base current history1 Iron ppm ASTM D6130 >15 0 0 Aluminum ppm ASTM D6130 >10 0 0 Copper ppm ASTM D6130 >10 0 <11 Lead ppm ASTM D6130 >10 0 <1	fail
Phosphorus ppm ASTM D6130 0 14 5 Boron ppm ASTM D6130 357 332 Molybdenum ppm ASTM D6130 225 210 CORROSION method limit/base current history1 Iron ppm ASTM D6130 >15 0 0 Aluminum ppm ASTM D6130 >10 0 0 Copper ppm ASTM D6130 >10 0 0 Tin ppm ASTM D6130 >10 0 <1	history2
Boron ppm ASTM D6130 357 332 Molybdenum ppm ASTM D6130 225 210 CORROSION method limit/base current history1 Iron ppm ASTM D6130 >15 0 0 Aluminum ppm ASTM D6130 >10 0 0 Copper ppm ASTM D6130 >10 0 0 Lead ppm ASTM D6130 >10 0 <1 Tin ppm ASTM D6130 >10 0 <1	93
Molybdenum ppm ASTM D6130 225 210 CORROSION method limit/base current history1 Iron ppm ASTM D6130 >15 0 0 Aluminum ppm ASTM D6130 >10 0 0 Copper ppm ASTM D6130 >10 <1	17
CORROSION method limit/base current history1 Iron ppm ASTM D6130 >15 0 0 Aluminum ppm ASTM D6130 >10 0 0 Copper ppm ASTM D6130 >10 <1	592
Iron ppm ASTM D6130 >15 0 0 Aluminum ppm ASTM D6130 >10 0 0 Copper ppm ASTM D6130 >10 <1 <1 Lead ppm ASTM D6130 >10 0 <1 Tin ppm ASTM D6130 >10 0 <1	359
Aluminum ppm ASTM D6130 >10 0 0 Copper ppm ASTM D6130 >10 <1 <1 Lead ppm ASTM D6130 >10 0 <1 Tin ppm ASTM D6130 >10 0 <1	history2
Copper ppm ASTM D6130 >10 <1 <1 Lead ppm ASTM D6130 >10 0 <1 Tin ppm ASTM D6130 >10 0 <1	<1
Lead ppm ASTM D6130 >10 0 <1 Tin ppm ASTM D6130 >10 0 1	0
Tin ppm ASTM D6130 >10 0 1	<1
Tin ppm ASTM D6130 >10 0 1	<1
Zinc ppm ASTM D6130 0 0	0
	0
CONTAMINANTS method limit/base current history1	history2
Chlorine ppm ASTM D6130 0 7	23
CARRIER SALTS method limit/base current history1	history2
Sodium ppm ASTM D6130 2140 1985	3162
Potassium ppm ASTM D6130 51 34	139
SCALE POTENTIAL method limit/base current history1	history2
Calcium ppm ASTM D6130 4 5	
MagnesiumppmASTM D613001	6

Recommendation

The fluid is suitable for fu Sample Comment: Aux s

Machine Id

Corrosion

All metal levels are norma in the cooling system.

Contaminants

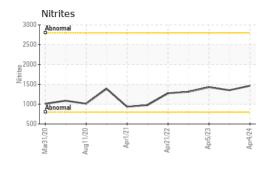
There is no indication of a coolant.

Coolant Condition

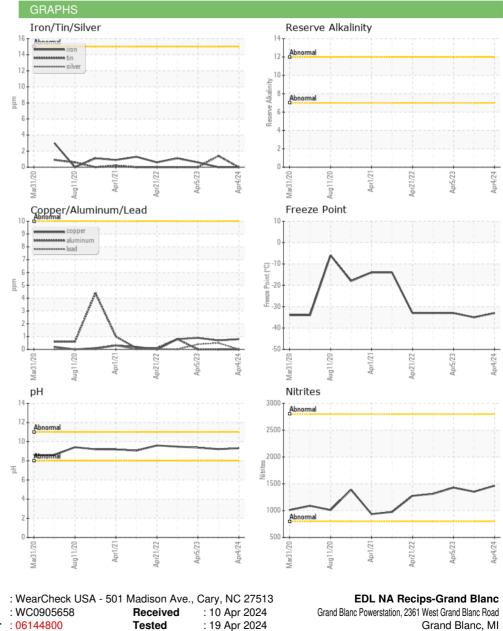
Glycol and nitrite levels a level of this fluid is within



COOLANT REPORT







: 19 Apr 2024 - Jonathan Hester



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Submitted By: Tony Saint Marie

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Page 2 of 2