

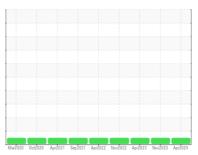
# **COOLANT REPORT**



Machine Id **Grand Blanc CAT 4 GBLM04BE** 

Auxiliary Circuit Coolant

CHEVRON HEAVY DUTY PF COOLANT (--- GAL)



Sample Rating Trend



#### Recommendation

The fluid is suitable for further service. ( Customer Sample Comment: 4 Aux sample 6mo)

### Corrosion

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

## Contaminants

There is no indication of any contamination in the coolant.

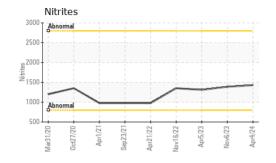
### **Coolant Condition**

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

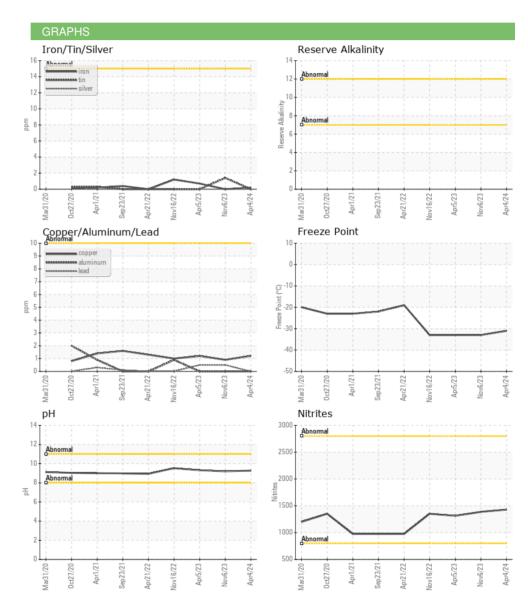
SAMPLE INFORMATION   method   limit/base   current   history1   history2	PP COOLANT (	- GAL)	Mar2020 Oc	t2020 Apr2021 Sep2021	Apr2022 Nov2022 Apr2023 Nov2	123 Apr2024	
Sample Date         Client Info         04 Apr 2024         06 Nov 2023         05 Apr 2023           Machine Age         hrs         Client Info         68772         65347         60443           Oil Age         hrs         Client Info         13342         9917         5013           Oil Changed         Client Info         N/A         Not Changd         N/A           Sample Status         NORMAL         NORMAL         NORMAL           PHYSICAL TEST RESULTS method         limit/base         current         history1         history2           Glycol Type         FT-IR               Specific Gravity         "ASTM D1287         10.5         9.27         9.20         9.31           Nitrites         ppm         AP-053:2009         9.800         1428         1388         1312           Reserve Alikalinity         Scile Pu?         "ASTM D3321         50         48.7         49.3         49.1           Freezing Point         "F         ASTM D3321         50         48.7         49.3         49.1           Freezing Point         "F         ASTM D3321         37         -31         -33         -33           Total	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         68772         65347         60443           Oil Age         hrs         Client Info         13342         9917         5013           Oil Changed         Client Info         N/A         Not Changd         N/A           Sample Status         NORMAL         NORMAL         NORMAL         NORMAL           PHYSICAL TEST RESULTS         method         limit/base         current         history1         history2           Glycol Type         FT-IR                Specific Gravity         PScie 0-14         ASTM D1287         1 0.55         9.27         9.20         9.31           Nitrites         ppm         AP-053:2009         >800         1428         1388         1312           Reserve Alkalinity         Scie 0-20         'ASTM D1121               Percentage Glycol         ASTM D3321         50         48.7         49.3         49.1           Freezing Point         "F         ASTM D3321         37         -31         -33         -33           Total Dissolved Solids         Carboxylate         current         mistory1	Sample Number		Client Info		WC0905662	WC0870106	WC0795336
Oil Age         hrs         Client Info         13342         9917         5013           Oil Changed         Client Info         N/A         Not Changd         N/A           Sample Status         NORMAL         NORMAL         NORMAL         NORMAL           PHYSICAL TEST RESULTS         method         Imitifusse         current         history1         history2           Glycol Type         FT-IR               Specific Gravity         'ASTM D1287         10.5         9.27         9.20         9.31           Nitrites         ppm         AP-053:2009         >800         1428         1388         1312           Reserve Alkalinity         Scale 0:40         'ASTM D1121              Percentage Glycol         '%         ASTM D3321         50         48.7         49.3         49.1           Freezing Point         °F         ASTM D3321         50         48.7         49.3         49.1           Freezing Point         °F         ASTM D8321         50         48.7         49.3         49.1           Freezing Point         °F         ASTM D6130         1000         47         41	Sample Date		Client Info		04 Apr 2024	06 Nov 2023	05 Apr 2023
Oil Changed Sample Status         Client Info         N/A         NoRMAL         NORMAL         NORMAL           PHYSICAL TEST RESULTS         method         limit/base         current         history1         history2           Glycol Type         FT-IR              Specific Gravity         'ASTM D1298         1.065         1.067         1.066           pH         Scale 0-14         ASTM D1287         10.5         9.27         9.20         9.31           Nitrites         ppm         AP-053:209         >800         1428         1388         1312           Reserve Alkalinity         Scale 0-20         'ASTM D121              Percentage Glycol         %         ASTM D1321         -37         -31         -33         -33           Treezing Point         °F         ASTM D3321         -37         -31         -33         -33           Total Dissolved Solids         239.5         218.0         223.0         223.0           CARPOSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         16         8	Machine Age	hrs	Client Info		68772	65347	60443
Sample Status	Oil Age	hrs	Client Info		13342	9917	5013
PHYSICAL TEST RESULTS   method   limit/base   current   history1   history2	Oil Changed		Client Info		N/A	Not Changd	N/A
Separation   Sep	Sample Status				NORMAL	NORMAL	NORMAL
Specific Gravity	PHYSICAL TEST F	RESULTS	method	limit/base	current	history1	history2
pH         Scale 0-14         ASTM D1287         10.5         9.27         9.20         9.31           Nitrites         ppm         AP-053:2009         >800         1428         1388         1312           Reserve Alkalinity         Scale 0-20         "ASTM D321         50         48.7         49.3         49.1           Freezing Point         "F         ASTM D3321         -37         -31         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -33         -14         -14         108         -14         -14         108         -14         -14         108         -14         -14         108         -14         -14         108         -14         -14         -14         -14         -14         -14	Glycol Type		FT-IR				
Nitrites	Specific Gravity		*ASTM D1298		1.065	1.067	1.066
Reserve Alkalinity	рН	Scale 0-14	ASTM D1287	10.5	9.27	9.20	9.31
Percentage Glycol   %	Nitrites	ppm	AP-053:2009	>800	1428	1388	1312
Freezing Point         °F         ASTM D3321         -37         -31         -33         -33           Total Dissolved Solids         239.5         218.0         223.0           Carboxylate         n/a         n/a         fail           CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         1000         47         41         108           Phosphorus         ppm         ASTM D6130         0         16         8         23           Boron         ppm         ASTM D6130         333         277         522           Molybdenum         ppm         ASTM D6130         145         120         199           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1         0         <1           Aluminum         ppm         ASTM D6130         >10         0         <1         <1           Lead         ppm         ASTM D6130         >10         0         <1         <1           Tin         ppm         ASTM D61	Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids         239.5         218.0         223.0           Carboxylate         n/a         n/a         fail           CORROSION INHIBITORS method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         1000         47         41         108           Phosphorus         ppm         ASTM D6130         0         16         8         23           Boron         ppm         ASTM D6130         333         277         522           Molybdenum         ppm         ASTM D6130         145         120         199           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1         0         <1           Aluminum         ppm         ASTM D6130         >10         0         0         0           Copper         ppm         ASTM D6130         >10         0         <1         <1           Lead         ppm         ASTM D6130         >10         0         <1         <1           Tin         ppm         ASTM D6130         0	Percentage Glycol	%	ASTM D3321	50	48.7	49.3	49.1
Carboxylate         n/a         n/a         fail           CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         1000         47         41         108           Phosphorus         ppm         ASTM D6130         0         16         8         23           Boron         ppm         ASTM D6130         3333         277         522           Molybdenum         ppm         ASTM D6130         145         120         199           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1         0         <1           Aluminum         ppm         ASTM D6130         >10         0         0         0           Copper         ppm         ASTM D6130         >10         0         <1         <1           Lead         ppm         ASTM D6130         >10         0         <1         <1           Zinc         ppm         ASTM D6130         0         0         0         0           CONTAMINANTS         method	Freezing Point	°F	ASTM D3321	-37	-31	-33	-33
CORROSION INHIBITORS   method   limit/base   current   history1   history2	Total Dissolved Solids				239.5	218.0	223.0
Silicon         ppm         ASTM D6130         1000         47         41         108           Phosphorus         ppm         ASTM D6130         0         16         8         23           Boron         ppm         ASTM D6130         3333         277         522           Molybdenum         ppm         ASTM D6130         145         120         199           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1         0         <1           Aluminum         ppm         ASTM D6130         >10         0         0         0           Copper         ppm         ASTM D6130         >10         0         <1         <1           Lead         ppm         ASTM D6130         >10         0         <1         <1           Tin         ppm         ASTM D6130         >10         0         1         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>fail</th>	Carboxylate				n/a	n/a	fail
Phosphorus         ppm         ASTM D6130         0         16         8         23           Boron         ppm         ASTM D6130         333         277         522           Molybdenum         ppm         ASTM D6130         145         120         199           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1         0         <1           Aluminum         ppm         ASTM D6130         >10         0         0         0           Copper         ppm         ASTM D6130         >10         1         <1         1           Lead         ppm         ASTM D6130         >10         0         <1         <1           Tin         ppm         ASTM D6130         >10         0         1         0           Zinc         ppm         ASTM D6130         0         0         0         0           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         2103         1725         2971	CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Boron         ppm         ASTM D6130         333         277         522           Molybdenum         ppm         ASTM D6130         145         120         199           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1         0         <1           Aluminum         ppm         ASTM D6130         >10         0         0         0           Copper         ppm         ASTM D6130         >10         1         <1         1           Lead         ppm         ASTM D6130         >10         0         <1         <1           Tin         ppm         ASTM D6130         >10         0         1         0           Zinc         ppm         ASTM D6130         0         0         0         0           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         2103         1725         2971           Potassium         ppm         ASTM D6130         44         37         111           SCALE POTENTI	Silicon	ppm	ASTM D6130	1000	47	41	108
Molybdenum         ppm         ASTM D6130         145         120         199           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1         0         <1           Aluminum         ppm         ASTM D6130         >10         0         0         0           Copper         ppm         ASTM D6130         >10         1         <1         1           Lead         ppm         ASTM D6130         >10         0         <1         <1           Tin         ppm         ASTM D6130         >10         0         1         0           Zinc         ppm         ASTM D6130         0         0         0         0           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         2103         1725         2971           Potassium         ppm         ASTM D6130         44         37         111           SCALE POTENTIAL         method         limit/base         current         history1         history2 <t< th=""><th>Phosphorus</th><th>ppm</th><th>ASTM D6130</th><th>0</th><th>16</th><th>8</th><th>23</th></t<>	Phosphorus	ppm	ASTM D6130	0	16	8	23
CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1         0         <1           Aluminum         ppm         ASTM D6130         >10         0         0         0           Copper         ppm         ASTM D6130         >10         1         <1         1           Lead         ppm         ASTM D6130         >10         0         <1         <1           Tin         ppm         ASTM D6130         >10         0         1         0           Zinc         ppm         ASTM D6130         0         0         0         0           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         0         8         24           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         44         37         111           SCALE POTENTIAL         method         limit/base         current         history1         history2	Boron	ppm	ASTM D6130		333	277	522
Iron         ppm         ASTM D6130         >15         <1	Molybdenum	ppm	ASTM D6130		145	120	199
Aluminum         ppm         ASTM D6130         >10         0         0         0           Copper         ppm         ASTM D6130         >10         1         <1         1           Lead         ppm         ASTM D6130         >10         0         <1         <1           Tin         ppm         ASTM D6130         >10         0         1         0           Zinc         ppm         ASTM D6130         0         0         0         0           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         0         8         24           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2103         1725         2971           Potassium         ppm         ASTM D6130         44         37         111           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2         3         2	CORROSION		method	limit/base	current	history1	history2
Copper         ppm         ASTM D6130         >10         1         <1	Iron	ppm	ASTM D6130	>15	<1	0	<1
Lead         ppm         ASTM D6130         >10         0         <1	Aluminum	ppm	ASTM D6130	>10	0	0	0
Tin         ppm         ASTM D6130         >10         0         1         0           Zinc         ppm         ASTM D6130         0         0         0         0           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         0         8         24           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2103         1725         2971           Potassium         ppm         ASTM D6130         44         37         111           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2         3         2	Copper	ppm	ASTM D6130	>10	1	<1	1
Zinc         ppm         ASTM D6130         0         0         0           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         0         8         24           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2103         1725         2971           Potassium         ppm         ASTM D6130         44         37         111           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2         3         2	Lead	ppm	ASTM D6130	>10	0	<1	<1
CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         0         8         24           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2103         1725         2971           Potassium         ppm         ASTM D6130         44         37         111           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2         3         2	Tin	ppm	ASTM D6130	>10	0	1	0
Chlorine         ppm         ASTM D6130         0         8         24           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2103         1725         2971           Potassium         ppm         ASTM D6130         44         37         111           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2         3         2	Zinc	ppm	ASTM D6130		0	0	0
CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         2103         1725         2971           Potassium         ppm         ASTM D6130         44         37         111           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2         3         2	CONTAMINANTS	;	method	limit/base	current	history1	history2
Sodium         ppm         ASTM D6130         2103         1725         2971           Potassium         ppm         ASTM D6130         44         37         111           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2         3         2	Chlorine	ppm	ASTM D6130		0	8	24
Potassium         ppm         ASTM D6130         44         37         111           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2         3         2	CARRIER SALTS		method	limit/base	current	history1	history2
SCALE POTENTIAL method limit/base current history1 history2  Calcium ppm ASTM D6130 2 3 2	Sodium	ppm	ASTM D6130		2103	1725	2971
Calcium         ppm         ASTM D6130         2         3         2	Potassium	ppm	ASTM D6130		44	37	111
	SCALE POTENTI	AL	method	limit/base	current	history1	history2
Magnesium         ppm         ASTM D6130         <1	Calcium	ppm	ASTM D6130		2	3	2
	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 : 06144802

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0905662

Unique Number : 10969610

Received **Tested** Diagnosed

: 10 Apr 2024 : 19 Apr 2024 : 19 Apr 2024 - Jonathan Hester

**EDL NA Recips-Grand Blanc** Grand Blanc Powerstation, 2361 West Grand Blanc Road

Grand Blanc, MI US 48439 Contact: Tony Saint Marie

Certificate 12367

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

tony.saintmarie@edlenergy.com

T:

F: