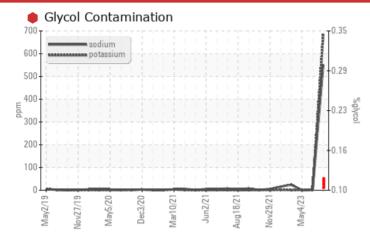




Machine Id **3844C** Component Natural Gas Engine Fluid CHEVRON DELO 400 NG (5 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	NORMAL		
Sodium	ppm	ASTM D5185m		🔺 551	3	0		
Potassium	ppm	ASTM D5185m	>20	<u> </u>	0	<1		
Glycol	%	*ASTM D2982		0.12				

Customer Id: GFL005 Sample No.: GFL0092685 Lab Number: 06055201 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED) ACTIONS			
Action	Status	Date	Done By	Description
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample			?	We recommend an early resample to monitor this condition.
Check Glycol Access			?	We advise that you check for the source of the coolant leak.

HISTORICAL DIAGNOSIS



07 Jun 2023 Diag: Wes Davis

04 May 2023 Diag: Wes Davis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

27 May 2022 Diag: Don Baldridge



No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The chromium level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

Machine Id **3844C** Component Natural Gas Engine Fluid CHEVRON DELO 400 NG (5 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear

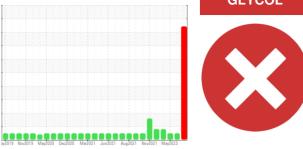
All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is positive.

Fluid Condition

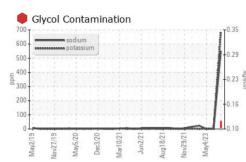
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

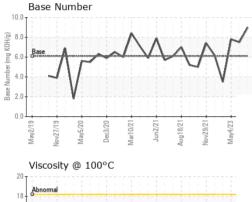


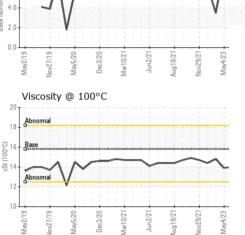
Sample Date Client Info 03 Jan 2024 07 Jun 2023 04 May 2023 Machine Age hrs Client Info 0 10560 10520 Oil Age hrs Client Info 0 175 523 Oil Changed Client Info N/A N/A N/A N/A N/A Sample Status Client Info Imit/base current History1 History2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method Imit/base current history1 History2 Iron ppm ASTM 051555 >50 13 4 4 Ohromium ppm ASTM 051555 >22 2 0 <1 Nickel ppm ASTM 051555 >3 0 0 0 Aumium ppm ASTM 051555 >3 0 0 0 Aumium ppm ASTM 051555 >3 0 0 0			ay2019 Nov201	19 May2020 Dec2020 Ma	r2021 Jun2021 Aug2021 Nov2021	May2023	
Sample Date Client Info 03 Jan 2024 07 Jun 2023 04 May 2023 Machine Age hrs Client Info 0 10560 10520 Oil Age hrs Client Info 0 175 523 Oil Changed Client Info N/A N/A N/A N/A N/A Sample Status Client Info Imit/base current History1 History2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method Imit/base current history1 History2 Iron ppm ASTM 051555 >50 13 4 4 Ohromium ppm ASTM 051555 >22 2 0 <1 Nickel ppm ASTM 051555 >3 0 0 0 Aumium ppm ASTM 051555 >3 0 0 0 Aumium ppm ASTM 051555 >3 0 0 0	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 10560 10520 Oil Age hrs Client Info N/A N/A Not Changed Sample Status a a SEVERE NORMAL NORMAL CONTAMINATION method Imit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG Wetar WC Method >0.1 NEG NEG NEG Iron ppm ASTM D5185m >50 13 4 4 Chromium ppm ASTM D5185m >50 13 4 4 Chromium ppm ASTM D5185m >50 13 4 4 Chromium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 4 <1	Sample Number		Client Info		GFL0092685	GFL0072422	GFL0072370
Oil Age Ins Client Info 0 175 523 Oil Changed Client Info N/A N/A N/A Not Changed Sample Status Client Info N/A N/A NORMAL NORMAL CONTAMINATION method imit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >50 13 4 4 Chromium ppm ASTM D5185m >4 2 0 <1	Sample Date		Client Info		03 Jan 2024	07 Jun 2023	04 May 2023
Oil Changed Sample Status Client Info N/A N/A N/A NA Not Changd NORMAL CONTAMINATION method imit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >50 13 4 4 Chromium ppm ASTM D5185m >22 2 0 -1 Nickel ppm ASTM D5185m >30 0 0 0 Silver ppm ASTM D5185m >32 0 0 0 Cadmium ppm ASTM D5185m >35 2 0 -1 0 ASTM D5185m >35 2 0 <1 0 0 Cadmium ppm ASTM D5185m 34 1 0 0 ASTM D5185m 15 34 44 1 </td <td>Machine Age</td> <td>hrs</td> <td>Client Info</td> <td></td> <th>0</th> <td>10560</td> <td>10520</td>	Machine Age	hrs	Client Info		0	10560	10520
Sample Status SEVERE NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG Water WC Method >0.1 NEG NEG NEG Wear WC Method >0.1 NEG NEG NEG Wear method limit/base current history1 history2 Iron ppm ASTM D5185m >50 13 4 4 Chromium ppm ASTM D5185m >22 2 0 <1	Oil Age	hrs	Client Info		0	175	523
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 13 4 4 Chromium ppm ASTM D5185m >2 2 0 <1	Oil Changed		Client Info		N/A	N/A	Not Changd
Water WC Method >0.1 NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >50 13 4 4 Chromium ppm ASTM D5185m >2 2 0 <1 Nickel ppm ASTM D5185m >2 2 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >3 2 0 0 Lead ppm ASTM D5185m >30 4 1 0 0 Cadmium ppm ASTM D5185m >35 2 0 0 0 Admanaese ppm ASTM D5185m >4 1 0 0 Admanaese ppm ASTM D5185m 130 50 44 Magnesium pm ASTM D5185m 130 50 48	Sample Status				SEVERE	NORMAL	NORMAL
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 13 4 4 Chromium ppm ASTM D5185m >2 2 0 <1 Nickel ppm ASTM D5185m >2 2 0 <1 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Lead ppm ASTM D5185m >3 4 <1 0 Copper ppm ASTM D5185m >3 2 0 <1 Cadmium ppm ASTM D5185m >4 1 <1 0 Cadmium ppm ASTM D5185m 15 34 44 Barium ppm ASTM D5185m 130 50 48 Magnesium ppm ASTM D5185m 1422 1357 1448 Phospho	CONTAMINAT	ION	method	limit/base	current	history1	history2
Iron ppm ASTM D5185m >50 13 4 4 Chromium ppm ASTM D5185m >4 2 <1 <1 Nickel ppm ASTM D5185m >2 2 0 <1 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Auminum ppm ASTM D5185m >3 0 0 0 Lead ppm ASTM D5185m >3 2 0 <1 0 Copper ppm ASTM D5185m >4 1 <1 0 0 Cadmium ppm ASTM D5185m >4 1 0 0 ADDITVES method imit/base current history1 history2 Boron ppm ASTM D5185m 10 0 0 0 Molybdenum ppm ASTM D5185m 130 0	Water		WC Method	>0.1	NEG	NEG	NEG
Prime ASTM D5185m >4 2 <1 <1 Nickel ppm ASTM D5185m >2 2 0 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >2 2 0 <1 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 2 0 0 Lead ppm ASTM D5185m >35 2 0 1 0 Copper ppm ASTM D5185m >35 2 0 1 0 Vanadium ppm ASTM D5185m >4 1 <1	Iron	ppm	ASTM D5185m	>50	13	4	4
Titanium ppm ASTM D5185m <1 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 2 0 0 Lead ppm ASTM D5185m >30 4 <1	Chromium	ppm	ASTM D5185m	>4	2	<1	<1
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 2 0 0 Lead ppm ASTM D5185m >30 4 <1 0 Copper ppm ASTM D5185m >35 2 0 <1 Vanadium ppm ASTM D5185m >4 1 <1 0 Vanadium ppm ASTM D5185m >4 1 <10 0 Cadmium ppm ASTM D5185m <15 34 44 Barium ppm ASTM D5185m 15 34 44 Barium ppm ASTM D5185m 0 0 0 0 Magnese ppm ASTM D5185m 130 50 44 Magnesium ppm ASTM D5185m 616 683 620 Calcium ppm ASTM D5185m 800 737 836 786 Sulfur <th< td=""><td>Nickel</td><td>ppm</td><td>ASTM D5185m</td><td>>2</td><th>2</th><td>0</td><td><1</td></th<>	Nickel	ppm	ASTM D5185m	>2	2	0	<1
Aluminum ppm ASTM D5185m >9 2 0 0 Lead ppm ASTM D5185m >30 4 <1	Titanium	ppm	ASTM D5185m		<1	0	0
Lead ppm ASTM D5185m >30 4 <1 0 Copper ppm ASTM D5185m >35 2 0 <1	Silver	ppm	ASTM D5185m	>3	0	0	0
Copper ppm ASTM D5185m >35 2 0 <1 Tin ppm ASTM D5185m >4 1 <1	Aluminum	ppm	ASTM D5185m	>9	2	0	0
Tin ppm ASTM D5185m >4 1 <1 0 Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m <1	Lead	ppm	ASTM D5185m	>30	4	<1	0
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>35	2	0	<1
Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 15 34 44 Barium ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 130 50 48 Manganese ppm ASTM D5185m 616 683 620 Calium ppm ASTM D5185m 616 683 620 Calium ppm ASTM D5185m 616 683 620 Calium ppm ASTM D5185m 800 737 836 786 Sulfur ppm ASTM D5185m 880 972 1033 966 Sulfur ppm ASTM D5185m >+100 18 4 13 Socium ppm ASTM D5185m >20 686 0 <1 Socium ppm ASTM D5185m>	Tin	ppm	ASTM D5185m	>4	1	<1	0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 15 34 44 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 130 50 48 Manganese ppm ASTM D5185m 616 683 620 Calcium ppm ASTM D5185m 616 683 620 Calcium ppm ASTM D5185m 616 683 620 Calcium ppm ASTM D5185m 800 737 836 786 Zinc ppm ASTM D5185m 800 737 836 786 Sulfur ppm ASTM D5185m 880 972 1033 966 Sulfur ppm ASTM D5185m >+100 18 4 13 Sodium ppm ASTM D5185m >20 686 0 <11	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 15 34 44 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 130 50 48 Manganese ppm ASTM D5185m <1	Cadmium	ppm	ASTM D5185m		<1	0	0
Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 130 50 48 Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m 616 683 620 Calcium ppm ASTM D5185m 616 683 620 Calcium ppm ASTM D5185m 616 683 620 Calcium ppm ASTM D5185m 800 737 836 786 Zinc ppm ASTM D5185m 800 737 836 786 Sulfur ppm ASTM D5185m 800 972 1033 966 Sulfur ppm ASTM D5185m 880 972 0 3243 3003 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 686 0 <1 Gly	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 130 50 48 Manganese ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m		15	34	44
Manganese ppm ASTM D5185m <1 <1 <1 <1 Magnesium ppm ASTM D5185m 616 683 620 Calcium ppm ASTM D5185m 1422 1357 1448 Phosphorus ppm ASTM D5185m 800 737 836 786 Zinc ppm ASTM D5185m 800 737 836 786 Sulfur ppm ASTM D5185m 880 972 1033 966 Sulfur ppm ASTM D5185m 880 972 3243 3003 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 18 4 13 Sodium ppm ASTM D5185m >20 686 0 <1	Barium	ppm	ASTM D5185m		0	0	0
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Calcium ppm ASTM D5185m 1422 1357 1448 Phosphorus ppm ASTM D5185m 800 737 836 786 Zinc ppm ASTM D5185m 880 972 1033 966 Sulfur ppm ASTM D5185m 880 972 3243 3003 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 18 4 13 Sodium ppm ASTM D5185m >+100 18 4 13 Sodium ppm ASTM D5185m >+20 686 0 <1	Manganese	ppm	ASTM D5185m		<1	<1	<1
Phosphorus ppm ASTM D5185m 800 737 836 786 Zinc ppm ASTM D5185m 880 972 1033 966 Sulfur ppm ASTM D5185m 880 972 3243 3003 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 18 4 13 Sodium ppm ASTM D5185m >+100 18 4 13 Sodium ppm ASTM D5185m >+100 18 4 13 Sodium ppm ASTM D5185m >20 686 0 <1	Magnesium	ppm	ASTM D5185m		616	683	620
Zinc ppm ASTM D5185m 880 972 1033 966 Sulfur ppm ASTM D5185m 2720 3243 3003 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 18 4 13 Sodium ppm ASTM D5185m >+100 18 4 13 Sodium ppm ASTM D5185m >+100 18 4 13 Sodium ppm ASTM D5185m >+100 18 4 13 Potassium ppm ASTM D5185m >20 686 0 <1	Calcium	ppm	ASTM D5185m		1422	1357	1448
SulfurppmASTM D5185m272032433003CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>+10018413SodiumppmASTM D5185m>+10018413PotassiumppmASTM D5185m>206860<1	Phosphorus	ppm	ASTM D5185m	800	737	836	786
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>+10018413SodiumppmASTM D5185m▲ 55130PotassiumppmASTM D5185m▲ 6860<1	Zinc	ppm	ASTM D5185m	880	972	1033	966
Silicon ppm ASTM D5185m >+100 18 4 13 Sodium ppm ASTM D5185m >=100 18 4 13 Potassium ppm ASTM D5185m >=20 686 0 <1 Glycol % *ASTM D2982 •=0.12 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0.1 0 Nitration Abs/cm *ASTM D7624 >20 9.5 7.1 6.3 Sulfation Abs/.1mm *ASTM D7615 >30 21.0 19.4 16.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3 16.6 14.7	Sulfur	ppm	ASTM D5185m		2720	3243	3003
Sodium ppm ASTM D5185m ▲ 551 3 0 Potassium ppm ASTM D5185m >20 ▲ 686 0 <1	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 686 0 <1 Glycol % *ASTM D2982 0.12 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0.1 0 Nitration Abs/cm *ASTM D7624 >20 9.5 7.1 6.3 Sulfation Abs/.1mm *ASTM D7415 >30 21.0 19.4 16.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3 16.6 14.7	Silicon	ppm	ASTM D5185m	>+100	18	4	13
Glycol % *ASTM D2982 0.12 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0.1 0 Nitration Abs/cm *ASTM D7624 >20 9.5 7.1 6.3 Sulfation Abs/.1mm *ASTM D7415 >30 21.0 19.4 16.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3 16.6 14.7	Sodium	ppm	ASTM D5185m		<u> </u>	3	0
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0.1 0 Nitration Abs/cm *ASTM D7624 >20 9.5 7.1 6.3 Sulfation Abs/.1mm *ASTM D7415 >30 21.0 19.4 16.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3 16.6 14.7	Potassium	ppm	ASTM D5185m	>20	<u> </u>	0	<1
Soot % % *ASTM D7844 0 0.1 0 Nitration Abs/cm *ASTM D7624 >20 9.5 7.1 6.3 Sulfation Abs/.1mm *ASTM D7415 >30 21.0 19.4 16.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3 16.6 14.7	Glycol	%	*ASTM D2982		0.12		
Nitration Abs/cm *ASTM D7624 >20 9.5 7.1 6.3 Sulfation Abs/.1mm *ASTM D7624 >30 21.0 19.4 16.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3 16.6 14.7	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 21.0 19.4 16.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3 16.6 14.7	Soot %	%	*ASTM D7844		0	0.1	0
Sulfation Abs/.1mm *ASTM D7415 >30 21.0 19.4 16.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3 16.6 14.7	Nitration	Abs/cm	*ASTM D7624	>20	9.5	7.1	6.3
Oxidation Abs/.1mm *ASTM D7414 >25 16.3 16.6 14.7	Sulfation		*ASTM D7415	>30	21.0	19.4	16.6
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	16.6	14.7
	Base Number (BN)	mg KOH/g	ASTM D2896		9.0	7.5	7.8



OIL ANALYSIS REPORT

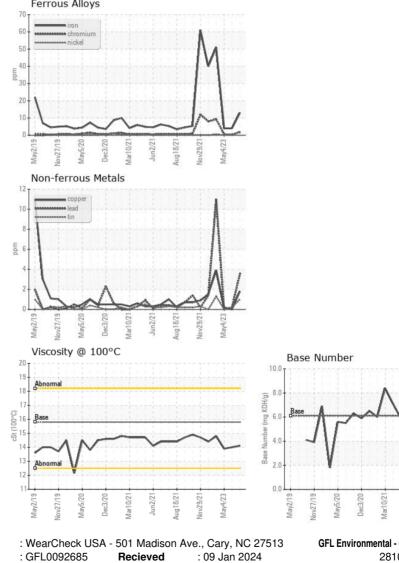


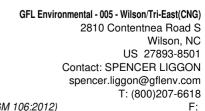




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.8	14.1	14.0	13.9
GRAPHS						

Ferrous Alloys





Aug18/21 Jov29/21 May4/23

Test Package : FLEET (Additional Tests: Glycol) Certificate L2367 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)

Laboratory

Sample No.

Lab Number

Unique Number

: 06055201

: 10821150

Diagnosed

Diagnostician

: 10 Jan 2024

: Jonathan Hester

Report Id: GFL005 [WUSCAR] 06055201 (Generated: 01/10/2024 12:51:09) Rev: 1

Submitted By: WALTER SKOKOWSKI

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