

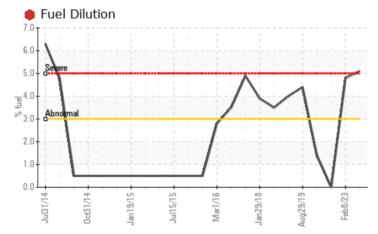
PROBLEM SUMMARY



Machine Id 2450

Component Diesel Engine Fluid CHEVRON DELO 400 SDE SAE 15W40 (9 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL	NORMAL		
Fuel	%	ASTM D3524	>3.0	• 5.1	4.8	<1.0		

Customer Id: GFL017 Sample No.: GFL0088568 Lab Number: 05900657 Test Package: FLEET



To manage this report scan the QR code

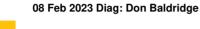
To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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 from the component if this has not already been done.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Fuel/injector System			?	We advise that you check the fuel injection system.			

HISTORICAL DIAGNOSIS





We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



view report



12 Aug 2021 Diag: Don Baldridge

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.

12 Jul 2021 Diag: Don Baldridge



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.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 2450

Z4JU Component

Diesel Engine

CHEVRON DELO 400 SDE SAE 15W40 (9 GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

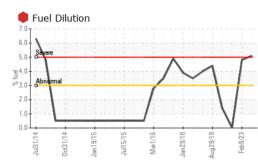
Fluid Condition

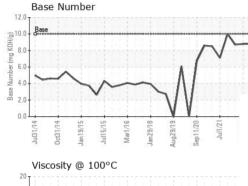
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

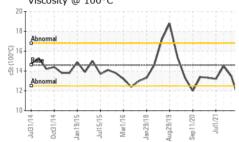
Sample Number Client Info I7 Jul 2023 GFL0088768 GFL0023 I2 Aug 2021 Machine Age hrs Client Info 120 645 264 Oil Age hrs Client Info 120 645 264 Oil Changed Client Info N/A Changed Not Changed Sample Status Imit Net Imit Net Current history Northall CONTAMINATION method Imit Nets current history Nitory Glycol WC Method Imit Nets current history Nitory Inon ppm ASTM 051555 >20 1 2 1 Intanium ppm ASTM 051555 >20 1 2 1 Silver ppm ASTM 051555 >20 2 4 2 Itanium ppm ASTM 051555 >20 2 4 2 Itanium ppm ASTM 051555 >20 2 4 2	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 120 456651 456651 Oil Age irs Client Info 120 645 264 Oil Changed Client Info N/A Changed Not Changed Sample Status Imit base current History1 History2 Glycol WC Method Imit base current History1 History2 Glycol WC Method Imit base current History1 History2 Iron ppm ASTM D5185m >20 1 2 1 Nickel ppm ASTM D5185m >20 1 <1 <1 Silver ppm ASTM D5185m >20 2 4 2 2 Lead ppm ASTM D5185m >20 2 4 <1 3 Auminum ppm ASTM D5185m >430 1 6 <1 0 0 2 4 1 1 1 0 0 <	Sample Number		Client Info		GFL0088568	GFL0065783	GFL0034118
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Oil Changed Client Info N/A Changed Not Changed Sample Status Image Image RUR ABNORMAL NORMAL CONTAMINATION method limit/base current History1 History2 Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current History1 History2 Iron ppm ASTM D518m >120 64 106 18 Chromium ppm ASTM D518m >20 1 <1 <1 Nickel ppm ASTM D518m >2 4 2 2 Lead ppm ASTM D518m >2 0 0 <1 Copper ppm ASTM D518m >30 4 15 4 Antimony ppm ASTM D518m >1 0 0 0 Vanadium ppm ASTM D518m Image site 5 5 5	Machine Age	hrs	Client Info		120	456651	456651
Sample Status Image: Status SEVERE ABNORMAL NORMAL CONTAMINATION method imit/base current history1 history2 Glycol WC Method NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >120 64 106 18 Chromium ppm ASTM D5185m >20 1 2 1 Nickel ppm ASTM D5185m >20 2 4 2 Lead ppm ASTM D5185m >20 2 4 2 Lead ppm ASTM D5185m >20 1 6 4 Tin ppm ASTM D5185m >330 4 15 4 Tin ppm ASTM D5185m S3 4 15 4 Copper ppm ASTM D5185m S3 5 5 5 Cadmium	Oil Age	hrs	Client Info		120	645	264
CONTAMINATION method limit/base current history1 history2 Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >120 64 106 18 Chromium ppm ASTM D5185m >5 <1 0 0 Titanium ppm ASTM D5185m >2 <1 <1 <1 Silver ppm ASTM D5185m >2 <1 <1 <1 <1 Aluminum ppm ASTM D5185m >2 0 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Oil Changed		Client Info		N/A	Changed	Not Changd
Glycol WC Method NEG NEG NEG WEAR METALS method limi/base current history1 history2 Iron ppm ASTM D5185m >20 1 2 1 Nickel ppm ASTM D5185m >20 1 2 1 Nickel ppm ASTM D5185m >2 <1 0 0 Nitanium ppm ASTM D5185m >2 0 0 <1 Aluminum ppm ASTM D5185m >20 2 4 2 Lead ppm ASTM D5185m >40 1 6 <1 Copper ppm ASTM D5185m >15 2 4 <1 Antimony ppm ASTM D5185m 55 4 <1 0 Vanadium ppm ASTM D5185m 6 1 <1 0 0 Vanadium ppm ASTM D5185m 5 5 5 5 <td< th=""><th>Sample Status</th><th></th><th></th><th></th><th>SEVERE</th><th>ABNORMAL</th><th>NORMAL</th></td<>	Sample Status				SEVERE	ABNORMAL	NORMAL
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Nickel ppm ASTM D5185m >5 <1	Iron	ppm	ASTM D5185m	>120	64	106	18
Titanium ppm ASTM D5185m >2 <1	Chromium	ppm	ASTM D5185m	>20	1	2	1
Silver ppm ASTM D5185m >2 0 0 <1	Nickel	ppm	ASTM D5185m	>5	<1	0	0
Aluminum ppm ASTM D5185m >20 2 4 2 Lead ppm ASTM D5185m >40 1 6 <1 Copper ppm ASTM D5185m >330 4 15 4 Tin ppm ASTM D5185m >15 2 4 <1 Antimony ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 0 0 <1 Cadmium ppm ASTM D5185m 0 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 1 <1 0 0 Malybdenum ppm ASTM D5185m 1 <1 2 <1 Magnesium ppm ASTM D5185m 1171 1588 1100 Phosphorus ppm ASTM D5185m 800 1233 1207 1136 <th>Titanium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>2</th> <th><1</th> <th><1</th> <th><1</th>	Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Lead ppm ASTM D5185m >40 1 6 <1	Silver	ppm	ASTM D5185m	>2	0	0	<1
Copper ppm ASTM D5185m >330 4 15 4 Tin ppm ASTM D5185m >15 2 4 <1 Antimony ppm ASTM D5185m >15 2 4 <1 Antimony ppm ASTM D5185m 0 0 0 Vanadium ppm ASTM D5185m - 0 0 <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 9 68 15 Barium ppm ASTM D5185m 59 58 55 Magnesium ppm ASTM D5185m 59 58 55 Magnesium ppm ASTM D5185m 874 412 841 Calcium ppm ASTM D5185m 60 1233 1207 1136 Sulfar ppm ASTM D5185m 20 36 17 7 <th>Aluminum</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>20</th> <th>2</th> <th>4</th> <th>2</th>	Aluminum	ppm	ASTM D5185m	>20	2	4	2
Tin ppm ASTM D5185m >15 2 4 <1	Lead	ppm	ASTM D5185m	>40	1	6	<1
Antimony ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m 0 0 <1 Boron ppm ASTM D5185m 9 68 15 Barium ppm ASTM D5185m 9 68 15 Barium ppm ASTM D5185m 55 55 Manganese ppm ASTM D5185m 55 55 Magnesium ppm ASTM D5185m 874 412 841 Calcium ppm ASTM D5185m 874 412 841 Calcium ppm ASTM D5185m 874 412 841 Calcium ppm ASTM D5185m 800 1233 1207 1136 Sulfur ppm ASTM D5185m 3000 3581 3609 2565 CONTAMINANTS method imit/base current history1 history2 <t< th=""><th>Copper</th><th>ppm</th><th>ASTM D5185m</th><th>>330</th><th>4</th><th>15</th><th>4</th></t<>	Copper	ppm	ASTM D5185m	>330	4	15	4
Att Motion ppm ASTM D5185m <1	Tin	ppm	ASTM D5185m	>15	2	4	<1
Cadmium ppm ASTM D5185m 0 0 <1	Antimony	ppm	ASTM D5185m				0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 9 68 15 Barium ppm ASTM D5185m 1 <1 0 Molybdenum ppm ASTM D5185m 59 58 55 Magnesium ppm ASTM D5185m 6874 412 841 Calcium ppm ASTM D5185m 874 412 841 Calcium ppm ASTM D5185m 760 980 962 966 Zinc ppm ASTM D5185m 800 1233 1207 1136 Sulfur ppm ASTM D5185m 3000 3581 3609 2565 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 2 3 2 Potassium ppm ASTM D5185m >20 2.1 4.8 <1.0 INFR	Vanadium	ppm	ASTM D5185m		<1	0	0
Boron ppm ASTM D5185m 9 68 15 Barium ppm ASTM D5185m 1 <1 0 Molybdenum ppm ASTM D5185m 59 58 55 Manganese ppm ASTM D5185m 674 412 841 Calcium ppm ASTM D5185m 874 412 841 Calcium ppm ASTM D5185m 760 980 962 966 Zinc ppm ASTM D5185m 760 980 962 966 Zinc ppm ASTM D5185m 800 1233 1207 1136 Sulfur ppm ASTM D5185m 3000 3581 3609 2565 CONTAMINANTS method Imit/base current history1 history2 Solicon ppm ASTM D5185m >20 2 0 <10 Fuel % ASTM D5185m >20 2 0 <1 Sodium	Cadmium	ppm	ASTM D5185m		0	0	<1
Barium ppm ASTM D5185m 1 <1	ADDITIVES		method	limit/base	current	history1	history2
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Manganese ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		1	<1	0
Magnesium ppm ASTM D5185m 874 412 841 Calcium ppm ASTM D5185m 1171 1588 1100 Phosphorus ppm ASTM D5185m 760 980 962 966 Zinc ppm ASTM D5185m 760 980 962 966 Zinc ppm ASTM D5185m 800 1233 1207 1136 Sulfur ppm ASTM D5185m 3000 3581 3609 2565 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 17 7 Sodium ppm ASTM D5185m >20 2 0 <1 Fuel % ASTM D5185m >20 2 0 <1 Fuel % ASTM D5185m >20 2 0 <1 Soot % % ASTM D5185m >20 2.1 2.8	Molybdenum	ppm	ASTM D5185m		59	58	55
Calcium ppm ASTM D5185m 1171 1588 1100 Phosphorus ppm ASTM D5185m 760 980 962 966 Zinc ppm ASTM D5185m 800 1233 1207 1136 Sulfur ppm ASTM D5185m 800 1233 1207 1136 Sulfur ppm ASTM D5185m 3000 3581 3609 2565 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 17 7 Sodium ppm ASTM D5185m >20 2 0 <11 Fuel % ASTM D3524 >3.0 5.1 ▲ 4.8 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 2.1 2.8 1.1 Nitration Abs/.mm *ASTM D7624 >20	Manganese	ppm	ASTM D5185m		<1	2	<1
Phosphorus ppm ASTM D5185m 760 980 962 966 Zinc ppm ASTM D5185m 800 1233 1207 1136 Sulfur ppm ASTM D5185m 3000 3581 3609 2565 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 17 7 Sodium ppm ASTM D5185m >20 2 3 2 Potassium ppm ASTM D5185m >20 2 0 <10	Magnesium	ppm	ASTM D5185m		874	412	841
Zinc ppm ASTM D5185m 800 1233 1207 1136 Sulfur ppm ASTM D5185m 3000 3581 3609 2565 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 17 7 Sodium ppm ASTM D5185m >20 2 3 2 Potassium ppm ASTM D5185m >20 2 0 <1 Fuel % ASTM D5185m >20 2 0 <1 Fuel % ASTM D5185m >20 2 0 <1 Fuel % ASTM D5185m >20 2 0 <1 Soto % % ASTM D5185m >20 2 0 <1 Soto % % *ASTM D7844 >3.0 5.1 A.8 <1.0 Nitration Abs/cm *ASTM D7624 >20 7.6	Calcium	ppm	ASTM D5185m		1171	1588	1100
SulfurppmASTM D5185m3000358136092565CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>255177SodiumppmASTM D5185m>20232PotassiumppmASTM D5185m>2020<1Fuel%ASTM D5185m>2020<1Soot %%ASTM D5185m>205.1▲ 4.8<1.0INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>42.12.81.1NitrationAbs/cm*ASTM D7624>207.68.76.4SulfationAbs/lmm*ASTM D7415>3021.523.218.9FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/lmm*ASTM D7414>2515.114.713.1	Phosphorus	ppm	ASTM D5185m	760	980	962	966
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 17 7 Sodium ppm ASTM D5185m >20 2 3 2 Potassium ppm ASTM D5185m >20 2 0 <1 Fuel % ASTM D5185m >20 2 0 <1 INFRA-RED % ASTM D7844 >3.0 5.1 A.8 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 2.1 2.8 1.1 Nitration Abs/cm *ASTM D7624 >20 7.6 8.7 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 23.2 18.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414	Zinc	ppm	ASTM D5185m	800	1233	1207	1136
Silicon ppm ASTM D5185m >25 5 17 7 Sodium ppm ASTM D5185m 2 3 2 Potassium ppm ASTM D5185m >20 2 0 <1 Fuel % ASTM D524 >3.0 5.1 ▲ 4.8 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 2.1 2.8 1.1 Nitration Abs/cm *ASTM D7624 >20 7.6 8.7 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 23.2 18.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 14.7 13.1	Sulfur	ppm	ASTM D5185m	3000	3581	3609	2565
Sodium ppm ASTM D5185m 2 3 2 Potassium ppm ASTM D5185m >20 2 0 <1 Fuel % ASTM D5185m >20 2 0 <1	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 0 <1	Silicon	ppm	ASTM D5185m	>25	5	17	7
Fuel % ASTM D3524 >3.0 5.1 ▲ 4.8 <1.0	Sodium	ppm	ASTM D5185m		2	3	2
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 2.1 2.8 1.1 Nitration Abs/cm *ASTM D7624 >20 7.6 8.7 6.4 Sulfation Abs/.tmm *ASTM D7415 >30 21.5 23.2 18.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 15.1 14.7 13.1	Potassium	ppm	ASTM D5185m	>20	2	0	<1
Soot % % *ASTM D7844 >4 2.1 2.8 1.1 Nitration Abs/cm *ASTM D7624 >20 7.6 8.7 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 23.2 18.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 14.7 13.1	Fuel	%	ASTM D3524	>3.0	• 5.1	4.8	<1.0
Nitration Abs/cm *ASTM D7624 >20 7.6 8.7 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 23.2 18.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 14.7 13.1	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 21.5 23.2 18.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 14.7 13.1	Soot %	%	*ASTM D7844	>4	2.1	2.8	1.1
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 14.7 13.1	Nitration	Abs/cm	*ASTM D7624	>20	7.6	8.7	6.4
Oxidation Abs/.1mm *ASTM D7414 >25 15.1 14.7 13.1	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	23.2	18.9
	FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	14.7	13.1
	Base Number (BN)	mg KOH/g	ASTM D2896	10		8.8	



OIL ANALYSIS REPORT





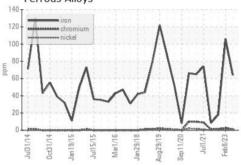


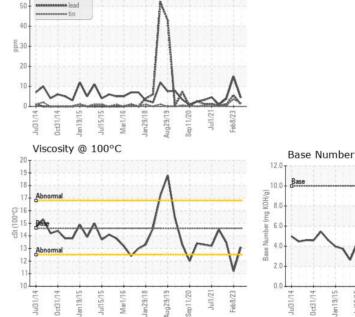
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	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	14.6	13.1	▲ 11.2	13.5
GRAPHS						

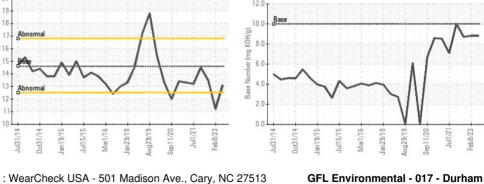
Ferrous Alloys

Non-ferrous Metals

60







148 Stone Park Court Durham, NC US 27703 Contact: Shane Parks shane.parks@gflenv.com T: (919)596-1363 F: (919)598-1852



Test Package : FLEET (Additional Tests: PercentFuel) 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)

Received

Diagnosed

Diagnostician : Wes Davis

: 17 Jul 2023

: 19 Jul 2023

: GFL0088568

: 05900657

Laboratory

Sample No.

Lab Number

Unique Number : 10562013