

## **OIL ANALYSIS REPORT**

Sample Rating Trend



## Machine Id DT804

Component Front Differential

CHEVRON DELO SYNTHETIC GEAR 75W90 (--- QTS)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the fluid.

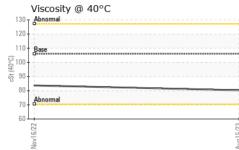
## Fluid Condition

The condition of the fluid is acceptable for the time in service.

Sample Number  Client Info  PCA0089158  PCA0089455     Sample Date  Client Info  15 Aug 2023  16 Nov 2022     Machine Age  mis  Client Info  79620  53294     Oil Age  mis  Client Info  79620  53294     Oil Changed  Client Info  79620  S3294     Sample Status  Imit Motion  NORMAL  ABNORMAL     CONTAMINATION  method  Imit/base  current  history1  history2    Water  WC Method  >.2  NEG  NEG     Chromium  ppm  ASTM 051555  >10  -1  -1     Nickel  ppm  ASTM 051555  >10  0      Aluminum  ppm  ASTM 051555  >10  0      Aluminum  ppm  ASTM 051555  >10  0      Aluminum  ppm  ASTM 05				11 1. 11			
Sample Date  Client Info  15 Aug 2023  16 Nov 2022     Machine Age  mis  Client Info  79620  53294     Oil Age  mis  Client Info  79620  53294     Sample Status  Client Info  Changed  Not Changed     Sample Status  method  Imit/base  current  history1  history2    Water  WC Method  >.2  NEG  NEG     WEAR METALS  method  Imit/base  current  history1  history2    Iron  ppm  ASTM 05185m  >10  -1  -1     Nickel  ppm  ASTM 05185m  >10  0  -1     Aluminum  ppm  ASTM 05185m  >25  -1  -1     Lead  ppm  ASTM 05185m  >10  0      Auminum  ppm  ASTM 05185m  10  0      Copper </th <th>SAMPLE INFOR</th> <th>MATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age  mis  Client Info  79620  53294     Oil Age  mis  Client Info  79620  53294     Oil Changed  Client Info  79620  53294     Sample Status  Info  NerAnged  Not Changed     CONTAMINATION  method  imit/base  current  history1  history2    Water  WC Method  >.2  NEG  NEG     WEAR METALS  method  imit/base  current  history1  history2    Iron  ppm  ASTM 05185n  >500  108  72     Nickel  ppm  ASTM 05185n  >10  0      Aluminum  ppm  ASTM 05185n  >25  0  0     Copper  ppm  ASTM 05185n  >100  12  10     Vanadium  ppm  ASTM 05185n  130  0      Rominum	Sample Number		Client Info		PCA0089158	PCA0080455	
Oil Age  mis  Client Info  79620  53294     Oil Changed  Client Info  Changed  Not Changed     Sample Status  Imitbase  current  Nistory1  history2    Water  WC Method  >.2  NEG  NEG     WEAR METALS  method  Imitbase  current  history1  history2    Iron  ppm  ASTM 05185m  >500  108  72     Nickel  ppm  ASTM 05185m  >10  0  0     Aluminum  ppm  ASTM 05185m  >10  0      Auminum  ppm  ASTM 05185m  >25  <1  <1     Auminum  ppm  ASTM 05185m  >10  0  <1     Auminum  ppm  ASTM 05185m  10  0  <     Auminum  ppm  ASTM 05185m  10  0      A	Sample Date		Client Info		15 Aug 2023	16 Nov 2022	
Oil Changed Sample Status  Client Info  Changed NORMAL  Not Changed ABNORNAL  ···    CONTAMINATION  method  Imit/base  current  History1  History2    Water  WC Method  >.2  NEG  NEG     WEAR METALS  method  Imit/base  current  History1  History2    Iron  ppm  ASTM D5185m  >500  108  72     Othornium  ppm  ASTM D5185m  >10  <1     Nickel  ppm  ASTM D5185m  >25  <1  <1     Lead  ppm  ASTM D5185m  >25  0  0     Vanadium  ppm  ASTM D5185m  >25  0  0     Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  16  16	Machine Age	mls	Client Info		79620	53294	
Sample Status  NORMAL  ABNORMAL  ABNORMAL     CONTAMINATION  method  imilibase  current  history1  history2    Water  WC Method  >.2  NEG  NEG     WEAR METALS  method  imilibase  current  history1  history2    Iron  ppm  ASTM D5185m  >500  108  72     Nickel  ppm  ASTM D5185m  >10  0  <1     Silver  ppm  ASTM D5185m  10  0  <1     Lead  ppm  ASTM D5185m  >25  0  0     Copper  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      Cadmium  ppm  ASTM D5185m  10  0      Maagainem  ppm  ASTM D5185m  139  134	Oil Age	mls	Client Info		79620	53294	
CONTAMINATION  method  imit/base  current  history1  history2    Water  WC Method  >.2  NEG  NEG     WEAR METALS  method  limit/base  current  history1  history2    Iron  ppm  ASTM 05185m  >500  108  72     Nickel  ppm  ASTM 05185m  >10  0  -1     Nickel  ppm  ASTM 05185m  >10  0  -1     Aluminum  ppm  ASTM 05185m  >25  1  -1     Lead  ppm  ASTM 05185m  >25  0  0     Cadmium  ppm  ASTM 05185m  >100  12  10     Vanadium  ppm  ASTM 05185m  >100  0      Vanadium  ppm  ASTM 05185m  100  10      Kandoine  qde  236    -	Oil Changed		Client Info		Changed	Not Changd	
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WaterWC Method>.2NEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>50010872ChromiumppmASTM D5185m>10c1<1NickelppmASTM D5185m>100<1AluminumppmASTM D5185m>25c1<1AuminumppmASTM D5185m>2500AuminumppmASTM D5185m>2500CopperppmASTM D5185m>10012100CadmiumppmASTM D5185m>100<1YanadiumppmASTM D5185m1000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m1616MalydenumppmASTM D5185m139134MagneseppmASTM D5185m13771235MagnesesppmASTM D5185m13771235PhosphorusppmASTM D5185m13771236SuffurppmASTM D5185m2138823796SuffurppmASTM D5185m2138823796SuffurppmASTM D5185m222SuffurppmASTM D5185m	CONTAMINAT	ION	method	limit/base	current	historv1	history2
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Nickel  ppm  ASTM D5185m  >10  0     Titanium  ppm  ASTM D5185m  0  <1     Silver  ppm  ASTM D5185m  225  <1  <1     Aluminum  ppm  ASTM D5185m  >25  0  0     Copper  ppm  ASTM D5185m  >100  12  10     Copper  ppm  ASTM D5185m  >100  0  <1     Vanadium  ppm  ASTM D5185m  100  0  0     Cadmium  ppm  ASTM D5185m  0  0  0     ADDITIVES  method  limit/base  current  history1  history2    Boron  ppm  ASTM D5185m  195  232     Magnesium  ppm  ASTM D5185m  216  0     Magnesium  ppm  ASTM D5185m  139  134     Silitor<	-						
Titanium  ppm  ASTM D5185m  0  <1							
Silver  ppm  ASTM D5185m  0  <1				>10			
Aluminum  ppm  ASTM D5185m  >25  <1					-		
Lead  ppm  ASTM D5185m  >25  0  0     Copper  ppm  ASTM D5185m  >100  12  10     Vanadium  ppm  ASTM D5185m  >10  0  <1     Vanadium  ppm  ASTM D5185m  0  0  0     Cadmium  ppm  ASTM D5185m  0  0  0     ADDITIVES  method  limit/base  current  history1  history2    Boron  ppm  ASTM D5185m  195  232     Malybdenum  ppm  ASTM D5185m  16  16     Magnesium  ppm  ASTM D5185m  139  134     Calcium  ppm  ASTM D5185m  1377  1235     Sulfur  ppm  ASTM D5185m  21398  23796     Sulfur  ppm  ASTM D5185m  21  10     Sulfur				>25	-		
Copper  ppm  ASTM D5185m  >100  12  10     Tin  ppm  ASTM D5185m  >10  0  <1     Vanadium  ppm  ASTM D5185m  0  0     Cadmium  ppm  ASTM D5185m  0  0     ADDITIVES  method  limit/base  current  history1  history2    Boron  ppm  ASTM D5185m  195  232     Barium  ppm  ASTM D5185m  195  232     Magnesium  ppm  ASTM D5185m  139  134     Calcium  ppm  ASTM D5185m  139  134     Calcium  ppm  ASTM D5185m  1377  1235     Sulfur  ppm  ASTM D5185m  227  214     Sulfur  ppm  ASTM D5185m  21398  23796     Sulfur  ppm  ASTM D5185m  20 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>							
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MarganeseppmASTM D5185m75MagnesiumppmASTM D5185m139134CalciumppmASTM D5185m246236PhosphorusppmASTM D5185m13771235ZincppmASTM D5185m227214SulfurppmASTM D5185m2139823796CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>751310SodiumppmASTM D5185m>20<10VISUALmethodlimit/basecurrenthistory1history2VisualNONENONENONEVISUALmethodlimit/basecurrenthistory1history2VisualNONENONENONEVISUALmethodlimit/basecurrenthistory1history2VisualNONENONENONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONENONESiltscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLAppearance </th <th>Barium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>&lt;1</th> <th>0</th> <th></th>	Barium	ppm	ASTM D5185m		<1	0	
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CalciumppmASTM D5185m246236PhosphorusppmASTM D5185m13771235ZincppmASTM D5185m227214SulfurppmASTM D5185m2139823796CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>751310SodiumppmASTM D5185m>751310PotassiumppmASTM D5185m>20<10VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONESiltscalar*VisualNONENONENONESiltscalar*VisualNONENONEMODERSand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLGoorscalar*VisualNORMLNORMLNORMLGoorscalar*VisualNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLFree Waterscalar*Visual>.2NEGNEG	Manganese	ppm	ASTM D5185m		7	5	
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ZincppmASTM D5185m227214SulfurppmASTM D5185m2139823796CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>751310SodiumppmASTM D5185m>751310PotassiumppmASTM D5185m>20<10VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONESiltscalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLQdorscalar*VisualNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLGodrscalar*VisualNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLFree Waterscalar*Visual>.2NEGNEG	Calcium	ppm	ASTM D5185m		246	236	
SulfurppmASTM D5185m2139823796CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>751310SodiumppmASTM D5185m>751310PotassiumppmASTM D5185m>20<10VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONEMODERAppearancescalar*VisualNORMLNORMLNORMLQdorscalar*VisualNORMLNORMLNORMLFree Waterscalar*Visual>-2NEGNEG	Phosphorus	ppm	ASTM D5185m		1377	1235	
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>751310SodiumppmASTM D5185m22PotassiumppmASTM D5185m>20<10VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONEMODERAppearancescalar*VisualNORMLNORMLNORMLAddressscalar*VisualNORMLNORMLNORMLFree Waterscalar*VisualNORMLNEGNEG	Zinc	ppm	ASTM D5185m		227	214	
SiliconppmASTM D5185m>751310SodiumppmASTM D5185m22PotassiumppmASTM D5185m>20<10VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONEMODERSand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLGdorscalar*VisualNORMLNORMLNORMLFree Waterscalar*Visual>.2NEGNEG	Sulfur	ppm	ASTM D5185m		21398	23796	
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VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONEMODERSand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGFree Waterscalar*VisualNEGNEG	Sodium	ppm	ASTM D5185m		2	2	
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Precipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONEMODERSand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGFree Waterscalar*VisualNEGNEG	White Metal	scalar		NONE	NONE	NONE	
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Debrisscalar*VisualNONENONEMODERSand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGFree Waterscalar*VisualNegNEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGFree Waterscalar*VisualNEG	Silt	scalar	*Visual	NONE	NONE	NONE	
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Appearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGFree Waterscalar*VisualNEGNEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Odorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGFree Waterscalar*VisualNEGNEG	Appearance		*Visual		NORML	NORML	
Emulsified Waterscalar*Visual>.2NEGFree Waterscalar*VisualNEGNEG						NORML	
Free Water scalar *Visual NEG NEG						NEG	
	6:32:03) Rev: 1						By: Matt Quinlan



# **OIL ANALYSIS REPORT**



		ethod	limit/base	current	history1	histo
Visc @ 40°C		M D445	106	80.3	83.7	
SAMPLE IMAG	aES me	ethod	limit/base	current	history1	histo
Color						
Color				no image	no image	no ima
Bottom				no image	no image	no ima
GRAPHS						
Ferrous Alloys						
100 - iron 90 - chromium		Contractor of the local division of the loca				
80-						
70						
E 50 40						
30 -						
20						
0 L'			27.			
Nov16/22			Aug15/23			
≥ Non-ferrous Metal	s		A			
12 copper 1						
10 - Lead						
8-						
E 6-						
4						
2						
5			/23			
Nov16/22			Aug15/23			
Viscosity @ 40°C						
130 T Abnormal			, - I I			
120 -						
110 Base						
(Ĵ 100 - 90 - ኛ 90 -						
3 90						
80						
70 - Abnormal						
60			23			
Nov16/22			Aug15/23			
: WearCheck USA - 50				NW WI	HITE & CO - GF	
: PCA0089158 : 06105509	Received Tested		Feb 2024 Mar 2024		1060 ROGEF	RS BRIDG
r : 10903739	Diagnosed	d :041	Mar 2024 - Don	Baldridge		US 2



Tes Certificate L2367 To discuss this san \* - 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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