

# **OIL ANALYSIS REPORT**

Sample Rating Trend



### Machine Id DT800 Component

Front Axle

CHEVRON RPM SYNTHETIC GEAR 75W90 (--- GAL)

# 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 oil.

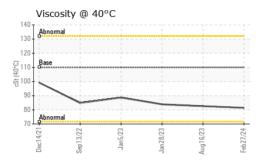
## Fluid Condition

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

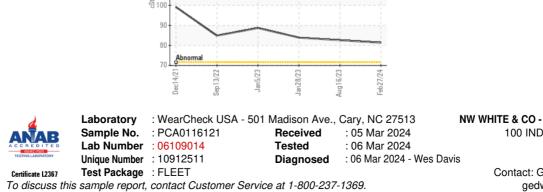
Sample Number     Client Info     PCA0116121     PCA0102273     PCA0090277       Sample Date     Client Info     27 Feb 2024     16 Aug 2023     28 Jan 2023       Machine Age     mils     Client Info     157053     152234     101404       Oil Age     mils     Client Info     4819     5826     101404       Oil Changed     Client Info     N/A     Changed     N/A       Sample Status     method     Imit/base     current     history!     History!       Water     WC Method     >0.2     NEG     NEG     NEG       Chromium     ppm     ASTM 05185m     >10     0     1     -1       Nickel     ppm     ASTM 05185m     >10     0     1     -1       Nickel     ppm     ASTM 05185m     >50     3     20     14       Silver     ppm     ASTM 05185m     >50     3     20     14       Tin     ppm     ASTM 05185m     50     3     20     14       Tinaum     p			المرم والمرمون	Line it //n n n n		In the transmission	la la tana 0
Sample Date     Client Info     27 Feb 2024     16 Aug 2023     28 Jan 2023       Machine Age     mis     Client Info     157053     152234     101404       Oil Age     mis     Client Info     4819     5626     101404       Sample Status     Client Info     N/A     Changed     N/A       Sample Status     Client Info     N/A     ABNORMAL     ABNORMAL       CONTAMINATION     method     limit/base     current     history1     history1       Water     WC Method     >0.2     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM 05155m     >10     0     <1     0       Kickel     ppm     ASTM 05155m     >50     3     20     14       Lead     ppm     ASTM 05155m     >50     3     20     14       Vanadum     ppm     ASTM 05155m     >50     3     20     14       Vanadum     ppm <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     157053     152234     101404       Oil Age     mis     Client Info     4819     5626     101404       Oil Age     Client Info     N/A     Changed     N/A       Sample Status     Client Info     N/A     Changed     N/A       CONTAMINATION     method     Imit/base     current     history1     history2       Water     WC Method     >0.2     NEG     NEG     NEG       WEAR METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM 05185m     >10     0     -1     -1       Nickel     ppm     ASTM 05185m     >25     7     -1     1       Lead     ppm     ASTM 05185m     >25     2     0     0       Vanadium     ppm     ASTM 05185m     >10     0     -1     1       Lead     ppm     ASTM 05185m     0     0     0     0       Vanadium     ppm     <	Sample Number		Client Info		PCA0116121	PCA0102273	PCA0090277
Oil Age     mis     Client Info     4819     5626     101404       Oil Changed     Client Info     N/A     Changed     N/A       Sample Status     Client Info     N/A     Changed     N/A       CONTAMINATION     method     limit/base     current     history1     history1       Water     WC Method     >0.2     NEG     NEG     NEG       Weater     WC Method     >0.2     NEG     NEG     NEG       Chromium     ppm     ASTM 05185m     500     10     1     -1       Nickel     ppm     ASTM 05185m     >10     0     -1     0       Silver     ppm     ASTM 05185m     0     0     0     0       Aluminum     ppm     ASTM 05185m     >25     7     -1     1       Lead     ppm     ASTM 05185m     >25     2     0     0       Copper     ppm     ASTM 05185m     10     0     -1     -1       Vanadium     pm     ASTM 0	Sample Date		Client Info		27 Feb 2024	16 Aug 2023	28 Jan 2023
Oil Changed Client Info N/A Changed N/A   Sample Status Image Status NORMAL NORMAL ABNORMAL   CONTAMINATION method limit/base current history1 history2   Water WC Method >0.2 NEG NEG NEG   WEAR METALS method limit/base current history1 history2   Itron ppm ASTM 05185m >10 0 1 <1   Nickel ppm ASTM 05185m >10 0 <1 0   Silver ppm ASTM 05185m >25 7 <1 1   Lead ppm ASTM 05185m >25 2 0 0   Copper ppm ASTM 05185m >50 3 20 14   Vanadium ppm ASTM 05185m >50 3 20 14   Vanadium ppm ASTM 05185m >10 0 <1 <1   Vanadium ppm ASTM 05185m 10 0 <1 <1   Vanadium ppm ASTM 05185m 13 24 19   Barium ppm ASTM 05185m 13 24 19 <th>Machine Age</th> <th>mls</th> <th>Client Info</th> <th></th> <th>157053</th> <th>152234</th> <th>101404</th>	Machine Age	mls	Client Info		157053	152234	101404
Sample Status     NORMAL     NORMAL     NORMAL     ABNORMAL       CONTAMINATION     method     imit/base     current     history1     history2       Water     WC Method     >0.2     NEG     NEG     NEG       Wear METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >500     50     157     99       Chromium     ppm     ASTM D5185m     >10     0     1     <1       Nickel     ppm     ASTM D5185m     >10     0     0     0       Stiver     ppm     ASTM D5185m     >25     7     <1     1     1       Lead     ppm     ASTM D5185m     >50     3     20     14       Tin     ppm     ASTM D5185m     >10     0     0     0       Cadmium     ppm     ASTM D5185m     194     308     232       Barium     ppm     ASTM D5185m     199     16       Magagases	Oil Age	mls	Client Info		4819	5626	101404
CONTAMINATION     method     limit/base     current     history1     history2       Water     WC Method     >0.2     NEG     NEG     NEG       Wear METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >500     50     157     99       Chromium     ppm     ASTM D5185m     >10     0     -1     -1       Nickel     ppm     ASTM D5185m     >10     0     0     0       Silver     ppm     ASTM D5185m     >25     7     <1     1     1       Lead     ppm     ASTM D5185m     >25     2     0     0       Copper     ppm     ASTM D5185m     >10     0     -1     -1       Vanadium     ppm     ASTM D5185m     >10     0     -1     0       Copper     ppm     ASTM D5185m     13     24     19       Manadium     ppm     ASTM D5185m     194     308     232 </th <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th>Changed</th> <th>N/A</th>	Oil Changed		Client Info		N/A	Changed	N/A
Water     WC Method     >0.2     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >500     50     157     99       Chromium     ppm     ASTM D5185m     >10     0     1     <1     0       Nickel     ppm     ASTM D5185m     >10     0     <1     0     0       Silver     ppm     ASTM D5185m     >25     7     <1     1     1       Lead     ppm     ASTM D5185m     >25     2     0     0       Copper     ppm     ASTM D5185m     >10     0     <1     <1       Vanadium     ppm     ASTM D5185m     10     0     0     0       Cadmium     ppm     ASTM D5185m     13     24     19       Manganese     ppm     ASTM D5185m     132     24     19       Magnesium     ppm     ASTM D5185m     132     245 <td< th=""><th>Sample Status</th><th></th><th></th><th></th><th>NORMAL</th><th>NORMAL</th><th>ABNORMAL</th></td<>	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >500     50     157     99       Chromium     ppm     ASTM D5185m     >10     0     1     <1       Nickel     ppm     ASTM D5185m     >10     0     <1     0       Silver     ppm     ASTM D5185m     0     0     0     0       Aluminum     ppm     ASTM D5185m     >25     7     <1     1       Lead     ppm     ASTM D5185m     >50     3     20     14       Tin     ppm     ASTM D5185m     >50     3     20     14       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     -<1     0     0       Magnaseium     ppm     ASTM D5185m     194     308     232     2       Barium     ppm     ASTM D5185m     12     9     6	CONTAMINAT	ION	method	limit/base	current	history1	history2
Iron     ppm     ASTM D5185m     >500     50     157     99       Chromium     ppm     ASTM D5185m     >10     0     -1     <1       Nickel     ppm     ASTM D5185m     >10     0     <1     0       Silver     ppm     ASTM D5185m     0     0     0     0       Auminum     ppm     ASTM D5185m     >25     7     <1     1       Lead     ppm     ASTM D5185m     >50     3     20     14       Tin     ppm     ASTM D5185m     >10     0     <1     <1       Vanadium     ppm     ASTM D5185m     10     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Abadyaese     ppm     ASTM D5185m     134     24     19       Mangaenese     ppm     ASTM D5185m     122     9     6       Magnesium     ppm     ASTM D5185m     1226     1636     1267       Zi	Water		WC Method	>0.2	NEG	NEG	NEG
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TitaniumppmASTM D5185m<1<10SilverppmASTM D5185m000AluminumppmASTM D5185m>257<1	Chromium	ppm	ASTM D5185m	>10	0	1	<1
SilverppmASTM D5185m0000AluminumppmASTM D5185m>257<1	Nickel	ppm	ASTM D5185m	>10	0	<1	0
Aluminum     ppm     ASTM D5185m     >25     7     <1     1       Lead     ppm     ASTM D5185m     >25     2     0     0       Copper     ppm     ASTM D5185m     >50     3     20     14       Tin     ppm     ASTM D5185m     >10     0     <1	Titanium	ppm	ASTM D5185m		<1	<1	0
Lead     ppm     ASTM D5185m     >25     2     0     0       Copper     ppm     ASTM D5185m     >50     3     20     14       Tin     ppm     ASTM D5185m     >10     0     <1	Silver	ppm	ASTM D5185m		0	0	0
Lead     ppm     ASTM D5185m     >25     2     0     0       Copper     ppm     ASTM D5185m     >50     3     20     14       Tin     ppm     ASTM D5185m     >10     0     <1	Aluminum		ASTM D5185m	>25	7	<1	1
Copper     ppm     ASTM D5185m     >50     3     20     14       Tin     ppm     ASTM D5185m     >10     0     <1     <1       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     194     308     232       Barium     ppm     ASTM D5185m     13     24     19       Magnese     ppm     ASTM D5185m     122     9     6       Magnesium     ppm     ASTM D5185m     1226     1636     1267       Zinc     ppm     ASTM D5185m     1226     1636     1267       Zinc     ppm     ASTM D5185m     19421     29596     24454       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm	Lead		ASTM D5185m	>25	2	0	0
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BoronppmASTM D5185m194308232BariumppmASTM D5185m0<1	Cadmium		ASTM D5185m		0	0	0
BariumppmASTM D5185m0<1	ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185m132419ManganeseppmASTM D5185m296MagnesiumppmASTM D5185m10911991CalciumppmASTM D5185m241246192PhosphorusppmASTM D5185m122616361267ZincppmASTM D5185m188209153SulfurppmASTM D5185m194212959624454CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>75294727SodiumppmASTM D5185m>20<120VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLCONTAMINARscalar*VisualNORMLNORMLNORMLNORMLColorscalar*VisualNONENONENONENONEPrecipitatescalar*Vis	Boron	ppm	ASTM D5185m		194	308	232
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SiliconppmASTM D5185m>75294727SodiumppmASTM D5185m221PotassiumppmASTM D5185m>20<120VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONEMODERSand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Sulfur				19421		
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PotassiumppmASTM D5185m>20<120VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONEMODERSand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Sodium		ASTM D5185m		2	2	1
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Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGFree Waterscalar*VisualNEGNEGNEG	Silt	scalar	*Visual	NONE	LIGHT	NONE	NONE
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Odorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGFree Waterscalar*VisualNEGNEGNEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.2 NEG NEG   Free Water scalar *Visual NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG NEG NEG	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
:31:37) Rev: 1 Submitted By: Paul Riddic	Free Water	scalar	*Visual		NEG	NEG	NEG
	3:31:37) Rev: 1					Submitted E	By: Paul Riddick



# **OIL ANALYSIS REPORT**



FLUID PROP	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	110	81.4	82.6	83.9
SAMPLE IMA	GES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						
Ferrous Alloys						
40 - iron		$\wedge$				
20 - nickel	$\sim$	$/ \setminus$				
	$\sim$					
80-						
60			N			
20 -						
Dec14/21 Sep13/22	Jan5/23 Jan28/23	Aug16/23 -	Feb27/24			
Non-ferrous Met		4	E.			
35 copper	1					
30- measurement lead						
25						
20		$\wedge$				
15	1					
10	/					
5-						
Dec14/21	Jan5/23	Aug16/23	Feb27/24			
	~	Aug1	Feb2			
Viscosity @ 40°	C					
Abnormal						
20 -						
10 - Base						



\* - 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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