

OIL ANALYSIS REPORT

Sample Rating Trend





Component Rear Differential

Fluid

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 oil.

Fluid Condition

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

Sample Number Client Info PCA0113180 PCA0074801 PCA0068130 Sample Date Client Info 12 Dec 2023 20 Jul 2022 18 Mar 2022 Machine Age mis Client Info 131362 101864 6123 Oil Age mis Client Info 131362 101864 6123 Oil Changed Client Info Taitas Not Changd Not Changd Sample Status Client Info Intitose NorRMAL NorRMAL CONTAMINATION method Intitose NorRMAL NorRMAL Vater WC Method >2 NEG NEG NetGo Vater WO Method >2 NEG NorRMAL 0 Nickel ppm ASTM05185m 10 1 <1 0 Silver ppm ASTM05185m 5 0 <1 0 0 Copper ppm ASTM05185m 5 Nintinom <	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 12 Dec 2023 20 Jul 2022 18 Mar 2022 Machine Age mis Client Info 152183 107987 83289 Oil Age mis Client Info 131362 101864 6123 Oil Changed Client Info Changed Not Changd Not Changd Sample Status method imit/base current history1 history2 Water WC Method >.2 NEG NEG NEG Water WC Method >.2 NEG NEG NEG Chromium ppm ASTM 05165m >500 103 57 28 Chromium ppm ASTM 05165m >10 <1 0 0 Silver ppm ASTM 05165m >10 1< <1 1 Lead ppm ASTM 05165m >25 0 <1 0 0 Autminum ppm ASTM 05165m 10 0 0 0 0	Sample Number		Client Info		PCA0113180	PCA0074801	PCA0068130
Machine Age mis Client Info 162183 107987 83289 Oil Age mis Client Info 131362 101864 6123 Oil Changed Client Info Changed NORMAL NORMAL NORMAL Sample Status method imit/base current history1 history2 Water WC Method >.2 NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM 05165m >.500 103 5.7 28 Chromium ppm ASTM 05165m >.10 <1 0 0 Nickel ppm ASTM 05165m >.25 0 <1 .1 Lead ppm ASTM 05165m >.25 0 <1 0 0 Autimium ppm ASTM 05165m 10 0 0 0 0 Carbotint ppm ASTM 05165m <1 0	Sample Date		Client Info		12 Dec 2023	20 Jul 2022	18 Mar 2022
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Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >.2 NEG NEG NEG Wear METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >500 103 57 2.8 Chromium ppm ASTM D5185m >10 <1 <1 0 0 Nickel ppm ASTM D5185m >10 <1 0 0 1 <1 0 0 Copper ppm ASTM D5185m >25 0 <1 0 <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Changed</th> <th>Not Changd</th> <th>Not Changd</th>	Oil Changed		Client Info		Changed	Not Changd	Not Changd
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Chromium ppm ASTM D5185m >10 <1	Iron	ppm	ASTM D5185m	>500	103	57	28
Nickel ppm ASTM D5185m >10 <1	Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Titanium ppm ASTM D5185m <1	Nickel	ppm	ASTM D5185m	>10	<1	0	0
Silver ppm ASTM D5185m 0 <1	Titanium	ppm	ASTM D5185m		<1	0	0
Atuminum ppm ASTM D5185m >25 2 2 1 Lead ppm ASTM D5185m >25 0 <1 0 Copper ppm ASTM D5185m >100 1 <1 <1 Tin ppm ASTM D5185m >100 0 0 0 Antimony ppm ASTM D5185m >5 Vanadium ppm ASTM D5185m >5 Vanadium ppm ASTM D5185m <1 0 0 0 Cadmium ppm ASTM D5185m <1 0 0 0 Boron ppm ASTM D5185m 18 17 16 Magnese ppm ASTM D5185m 18 17 16 Magnesium ppm ASTM D5185m 1340 1270 1212 Zinc ppm ASTM D5185m 1340 1270 1212 Sotiu	Silver	ppm	ASTM D5185m		0	<1	<1
Lead ppm ASTM D5185m >25 0 <1	Aluminum	ppm	ASTM D5185m	>25	2	2	1
Copper ppm ASTM D5185m >100 1 <1	Lead	ppm	ASTM D5185m	>25	0	<1	0
Tin ppm ASTM D5185m >10 0 0 0 0 Antimony ppm ASTM D5185m >5 Vanadium ppm ASTM D5185m >5 Vanadium ppm ASTM D5185m 1 0 0 Cadmium ppm ASTM D5185m history1 history2 Boron ppm ASTM D5185m 239 238 210 Barium ppm ASTM D5185m 0 0 0 Magnese ppm ASTM D5185m 69 68 54 Calcium ppm ASTM D5185m 1340 1270 1212 Zinc ppm ASTM D5185m 1340 1270 1212 Zinc ppm ASTM D5185m 24096 25056 16555 CONTAMINANTS method Imit/base current history1 history2	Copper	maa	ASTM D5185m	>100	1	<1	<1
Antimony ppm ASTM D5185m >5 Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 239 238 210 Barium ppm ASTM D5185m 0 0 0 Maganese ppm ASTM D5185m 18 17 16 Manganese ppm ASTM D5185m 69 68 54 Calcium ppm ASTM D5185m 150 144 152 Phosphorus ppm ASTM D5185m 1340 1270 1212 Zinc ppm ASTM D5185m 24096 25056 16555 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 20 12 8 2 Sodium ppm ASTM D5185m >2	Tin	ppm	ASTM D5185m	>10	0	0	0
VanadiumppmASTM D5185m<1	Antimony	ppm	ASTM D5185m	>5			
CadmiumppmASTM D5185m<1	Vanadium	ppm	ASTM D5185m		<1	0	0
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m239238210BariumppmASTM D5185m000MolybdenumppmASTM D5185m181716MagneseppmASTM D5185m432MagnesiumppmASTM D5185m696854CalciumppmASTM D5185m150144152PhosphorusppmASTM D5185m134012701212ZincppmASTM D5185m240962505616555CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>7520128SodiumppmASTM D5185m>202<10VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONESoldurprisscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiltscalar*VisualNONE	Cadmium	mag	ASTM D5185m		<1	0	0
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BariumppmASTM D5185m0000MolybdenumppmASTM D5185m181716ManganeseppmASTM D5185m432MagnesiumppmASTM D5185m696854CalciumppmASTM D5185m150144152PhosphorusppmASTM D5185m134012701212ZincppmASTM D5185m9911496SulfurppmASTM D5185m240962505616555CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>7520128SodiumppmASTM D5185m>202<10VISUALmethodlimit/basecurrenthistory1history2Vhite Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORML	Boron	ppm	ASTM D5185m		239	238	210
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CalciumppmASTM D5185m150144152PhosphorusppmASTM D5185m134012701212ZincppmASTM D5185m9911496SulfurppmASTM D5185m240962505616555CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>7520128SodiumppmASTM D5185m>7520128PotassiumppmASTM D5185m>202<10VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLColorscalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLColorscalar*VisualNORMLNORMLNORMLNORMLAppearan	Magnesium	ppm	ASTM D5185m		69	68	54
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ZincppmASTM D5185m9911496SulfurppmASTM D5185m240962505616555CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>7520128SodiumppmASTM D5185m>7520128PotassiumppmASTM D5185m>202<10VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAgpearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGFree Waterscalar*Visual>.2NEGNEGNEG	Phosphorus	ppm	ASTM D5185m		1340	1270	1212
SulfurppmASTM D5185m240962505616555CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>7520128SodiumppmASTM D5185m<122PotassiumppmASTM D5185m>202<10VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNONENONENONENONEOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGFree Waterscalar*Visual>.2NEGNEGNEG	Zinc	ppm	ASTM D5185m		99	114	96
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SiliconppmASTM D5185m<>7520128SodiumppmASTM D5185m<122PotassiumppmASTM D5185m>202<10VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGFree Waterscalar*Visual>.2NEGNEGNEG	CONTAMINAN	TS	method	limit/base	current	history1	history2
SodiumppmASTM D5185m<1	Silicon	ppm	ASTM D5185m	>75	20	12	8
PotassiumppmASTM D5185m>202<1	Sodium	ppm	ASTM D5185m		<1	2	2
VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGFree Waterscalar*VisualScalar*VisualScalar*VisualScalar	Potassium	ppm	ASTM D5185m	>20	2	<1	0
White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGFree Waterscalar*VisualScalar*VisualScalar*VisualScalar	VISUAL		method	limit/base	current	history1	history2
Yellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGFree Waterscalar*VisualScalar*VisualScalar*VisualNEGNEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGFree Waterscalar*VisualScalar*VisualScalar	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGFree Waterscalar*VisualScalar*VisualScalar*VisualScalar	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Debrisscalar*VisualNONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGFree Waterscalar*VisualScalar*VisualScalar	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGFree Waterscalar*VisualStalar*VisualStalar	Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG Free Water scalar *Visual Scalar *Visual Scalar *Visual Scalar NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG Free Water scalar *Visual >ider NEG ider NEG ider NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water scalar *Visual >.2 NEG NEG NEG Free Water scalar *Visual NEG NEG NeG NEG	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual ; NEG nder NEG/WDUN - Janes Threatt	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
	Free Water	scalar	*Visual	;	NEG	nder NEWWDUN - JanNesGThrea	



OIL ANALYSIS REPORT

FLUID PROPERTIES method



		Visc @ 40°C	cSt	ASTM D445	106	86.1	89.5	91.2
		SAMPLE IM	AGES	method	limit/base	current	history1	history2
2	2	Color				no image	no image	no image
Mar18/2	Jul20/0	Bottom				no image	no image	no image
		GRAPHS						
	uu	Ferrous Alloys	tals	22 Jul2022	Dec12/23			
		Viscosity @ 40°	C Mar18/2	2/02/nF	Deci 2/2			
	(19-10) (19-10)	110 Base 100 90 - 80 Abnormal						
		70 + 12/11 + - 22/29	-18/22 +	20/22 -	:12/23			
Certificate L2367 To discuss th * - Denotes to	Laboratory Sample No. Lab Number Unique Number Test Package his sample report, of est methods that a	WearCheck USA PCA0113180 06037142 10792371 FLEET contact Customer Se re outside of the ISC	- 501 Mac Recieve Diagno Diagnos ervice at 1- 0 17025 sc	dison Ave., Ca ed : 15 [sed : 20 [stician : Jon 800-237-1369 cope of accred	y, NC 27513 Dec 2023 Dec 2023 athan Hester D. itation.	3 NW WH	ITE & CO - ANDE 2 F Contact: jthreatt T:	RSON DIVISION 605 RIVER RD IEDMONT, SC US 29673 James Threatt @nwwhite.com (864)918-4646
Statements of	f conformity to spec	ifications are based o	n the simpl	le acceptance c	lecision rule (.	JCGM 106:2012	?)	F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)