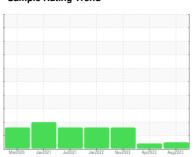


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id DT683

Component

Front Differential

CHEVRON RPM SYNTHETIC GEAR 75W90

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

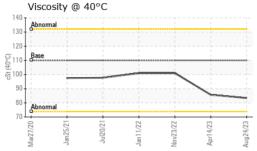
Fluid Condition

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

Sample Number Client Info PCA0101865 PCA0095216 PCA0076415 Sample Date Client Info 24 Aug 2023 14 Apr 2023 23 Nov 2022 2526 2	(4 mls)		Mar2020	Jan2021 Jul2021	Jan 2022 Nov 2022 Apr 2023	Aug2023	
Sample Date Client Info 24 Aug 2023 14 Apr 2023 23 Nov 2022 Machine Age mis Client Info 22526 225	SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Machine Age mls Client Info 22526	Sample Number		Client Info		PCA0101865	PCA0095216	PCA0076419
Oil Age mls Client Info 22526 210 210 211 21 21 21 21 21 21 21 11 11 11 11 11 12 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 22 25 4 22 25 4 22 25 4 22 25 4 22 25	Sample Date		Client Info		24 Aug 2023	14 Apr 2023	23 Nov 2022
Client Info	Machine Age	mls	Client Info		22526	22526	22526
NORMAL ABNORMAL ABNORMAL ABNORMAL ABNORMAL WEAR METALS method limit/base current history1 history2 history2 limit history2 history3 history2 history3 history2 history3 history2 history3 history4 history5	Oil Age	mls	Client Info		22526	22526	22526
WEAR METALS	Oil Changed		Client Info		N/A	N/A	N/A
Pron	Sample Status				NORMAL	ABNORMAL	ABNORMAL
Chromium ppm ASTM D5185m >10 1 <1 1 <td>WEAR METAL</td> <td>_S</td> <td>method</td> <td>limit/base</td> <td>current</td> <td>history1</td> <td>history2</td>	WEAR METAL	_S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>500	170	106	169
Titanium	Chromium	ppm	ASTM D5185m	>10	1	<1	1
Silver	Nickel	ppm	ASTM D5185m	>10	6	5	11
Aluminum ppm ASTM D5185m >25 4 2 5 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >100 <1 0 1 Tin ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m >5 Vanadium ppm ASTM D5185m >5 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 <1 0 0 0 ADDITIVES method limit/base current history1 history2 Barium ppm ASTM D5185m <1 0 0 0 Molybdenum ppm ASTM D5185m 15 13 <1 Manganese ppm ASTM D5185m 2 2 2 2 Magnesium ppm ASTM D5185m 88 64 4 4 Calcium ppm ASTM D5185m 196 142 16 Phosphorus ppm ASTM D5185m 1328 1339 1223 Zinc ppm ASTM D5185m 159 109 12 Sulfur ppm ASTM D5185m 24663 25964 25056 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 3 2 4 Potassium ppm ASTM D5185m NONE NONE NONE Precipitate scalar "Visual NONE NONE NONE NONE Precipitate scalar "Visual NONE NONE NONE NONE Precipitate scalar "Visual NONE NONE NONE NONE Silt scalar "Visual NONE NONE NONE NONE Appearance scalar "Visual NONE NONE NONE NONE Appearance scalar "Visual NORML	Titanium	ppm	ASTM D5185m		<1	0	<1
Lead	Silver	ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >100 <1	Aluminum	ppm	ASTM D5185m	>25	4	2	5
Copper ppm ASTM D5185m >100 <1 0 1 Tin ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m >5 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 22 22 171 0 Molybdenum ppm ASTM D5185m 15 13 <1	Lead		ASTM D5185m	>25	0	0	0
Antimony	Copper		ASTM D5185m	>100	<1	0	1
Antimony ppm ASTM D5185m >5 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 222 221 171 Barium ppm ASTM D5185m 15 13 <1					0	0	0
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 222 221 171 Barium ppm ASTM D5185m -1 0 0 Molybdenum ppm ASTM D5185m 15 13 <1 Manganese ppm ASTM D5185m 2 2 2 2 Magnesium ppm ASTM D5185m 196 142 16 142 16 Phosphorus ppm ASTM D5185m 1328 1339 1223 23 Zinc ppm ASTM D5185m 159 109 12 Sulfur ppm ASTM D5185m 24663 25964 25056 CONTAMINANTS method limit/base current history1 history2 Silicon ppm	Antimony			>5			
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 222 221 171 Barium ppm ASTM D5185m -<1	•			, 0	0	0	0
Boron							
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 15 13 <1 Manganese ppm ASTM D5185m 2 2 2 Magnesium ppm ASTM D5185m 88 64 4 Calcium ppm ASTM D5185m 196 142 16 Phosphorus ppm ASTM D5185m 1328 1339 1223 Zinc ppm ASTM D5185m 159 109 12 Sulfur ppm ASTM D5185m 24663 25964 25056 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 40 34 ▲ 108 Sodium ppm ASTM D5185m >20 2 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar <td>Boron</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>222</td> <td>221</td> <td>171</td>	Boron	ppm	ASTM D5185m		222	221	171
Manganese ppm ASTM D5185m 2 2 2 Magnesium ppm ASTM D5185m 88 64 4 Calcium ppm ASTM D5185m 196 142 16 Phosphorus ppm ASTM D5185m 1328 1339 1223 Zinc ppm ASTM D5185m 159 109 12 Sulfur ppm ASTM D5185m 24663 25964 25056 CONTAMINANTS method limit/base current history1 history2 CONTAMINANTS method limit/base current history1 <td>Barium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td><1</td> <td>0</td> <td>0</td>	Barium	ppm	ASTM D5185m		<1	0	0
Magnesium ppm ASTM D5185m 88 64 4 Calcium ppm ASTM D5185m 196 142 16 Phosphorus ppm ASTM D5185m 1328 1339 1223 Zinc ppm ASTM D5185m 159 109 12 Sulfur ppm ASTM D5185m 24663 25964 25056 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 40 34 108 Sodium ppm ASTM D5185m >20 2 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar	Molybdenum	ppm	ASTM D5185m		15	13	<1
Calcium ppm ASTM D5185m 196 142 16 Phosphorus ppm ASTM D5185m 1328 1339 1223 Zinc ppm ASTM D5185m 159 109 12 Sulfur ppm ASTM D5185m 24663 25964 25056 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 40 34 108 Sodium ppm ASTM D5185m >75 40 34 108 Sodium ppm ASTM D5185m >20 2 0 0 VISUAL method limit/base current history1 history2 VISUAL NONE NONE NONE NONE NONE White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE	Manganese	ppm	ASTM D5185m		2	2	2
Phosphorus ppm ASTM D5185m 1328 1339 1223 Zinc ppm ASTM D5185m 159 109 12 Sulfur ppm ASTM D5185m 24663 25964 25056 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 40 34 ▲ 108 Sodium ppm ASTM D5185m 3 2 4 Potassium ppm ASTM D5185m >20 2 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE	Magnesium	ppm	ASTM D5185m		88	64	4
Zinc ppm ASTM D5185m 159 109 12 Sulfur ppm ASTM D5185m 24663 25964 25056 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 40 34 ▲ 108 Sodium ppm ASTM D5185m >3 2 4 Potassium ppm ASTM D5185m >20 2 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual 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	Calcium	ppm	ASTM D5185m		196	142	16
Zinc ppm ASTM D5185m 159 109 12 Sulfur ppm ASTM D5185m 24663 25964 25056 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 40 34 ▲ 108 Sodium ppm ASTM D5185m 3 2 4 Potassium ppm ASTM D5185m >20 2 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual 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	Phosphorus	ppm	ASTM D5185m		1328	1339	1223
Sulfur ppm ASTM D5185m 24663 25964 25056 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 40 34 ▲ 108 Sodium ppm ASTM D5185m >20 2 0 0 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 NORML NORML NORML NORML NORML NORML Appearance <td></td> <td></td> <td>ASTM D5185m</td> <td></td> <td>159</td> <td>109</td> <td>12</td>			ASTM D5185m		159	109	12
Silicon ppm ASTM D5185m >75 40 34 ▲ 108 Sodium ppm ASTM D5185m 3 2 4 Potassium ppm ASTM D5185m >20 2 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE	Sulfur		ASTM D5185m		24663	25964	25056
Sodium ppm ASTM D5185m 3 2 4 Potassium ppm ASTM D5185m >20 2 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE <	CONTAMINAN	NTS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 0 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE 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 >.2 NEG NEG NEG	Silicon	ppm	ASTM D5185m	>75	40	34	<u></u> 108
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 >.2 NEG NEG NEG	Sodium	ppm	ASTM D5185m		3	2	4
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 >.2 NEG NEG NEG	Potassium	ppm	ASTM D5185m	>20	2	0	0
Yellow Metal scalar *Visual NONE NORML NO	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE MODER 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 >.2 NEG NEG NEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE MODER 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 >.2 NEG NEG NEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debrisscalar*VisualNONENONEMODERNONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEG	Debris	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Odor scalar *Visual NORML NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >.2 NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water scalar *Visual >.2 NEG NEG NEG	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>.2		NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG

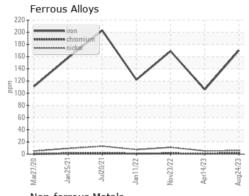


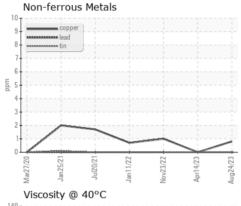
OIL ANALYSIS REPORT

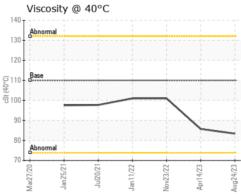


FLUID PROP	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	110	83.4	85.7	101
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

Test Package : FLEET

: PCA0101865 : 05949562

: 10645521

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Sep 2023 Diagnosed : 15 Sep 2023 Diagnostician : Don Baldridge

1491 YENMASSEE HIGHWAY VARNVILLE, SC US 29944

NW WHITE & CO - BEAUFORT DIVISION

Contact: VINCENT BULLOCK bullockvince514@gmail.com

T:

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)

F: