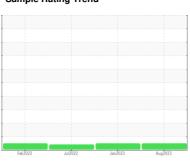


OIL ANALYSIS REPORT

Sample Rating Trend









DT735 Component Front 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

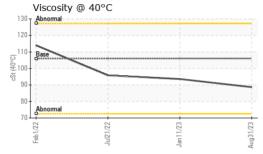
Fluid Condition

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

Sample Number Client Info PCA0103259 PCA0080891 PCA00745 Sample Date Client Info 31 Aug 2023 11 Jan 2023 21 Jul 202 10 Jac 2020 10 J	TIC GEAR 75W90 (QTS)	Feb 202	2 Jul2022	Jan 2023 As	ig2023	
Client Info	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age mls Client Info 154458 128802 104208 Dil Age mls Client Info 103804 0 26060 Dil Changed Not Changed Normal NormAL NormAL NormAL ABNORM WEAR METALS method limit/bass current history1 bistory1 Distron ppm ASTM D5185m >8 2 2 2 1 Distronium ppm ASTM D5185m >8 2 2 2 1 Distronium ppm ASTM D5185m >25 9 9 9 7 Tittanium ppm ASTM D5185m >4 < 1 0 0 0 Distronium ppm ASTM D5185m >4 < 1 0 0 0 Distronium ppm ASTM D5185m >4 < 1 0 0 0 Distronium ppm ASTM D5185m >4 < 1 0 0 0 Distronium ppm ASTM D5185m >4 < 1 0 0 0 0 < 1 Distronium ppm ASTM D5185m >4 < 1 0 0 0 0 < 1 Distronium ppm ASTM D5185m >4 < 1 0 0 0 0 < 1 Distronium ppm ASTM D5185m >4 < 1 0 0 0 0 < 1 Distronium ppm ASTM D5185m >5 < 0 0 0 0 0 0 Antimony ppm ASTM D5185m >5 0 0 0 0 0 0 Antimony ppm ASTM D5185m >5 0 0 0 0 0 0 Antimony ppm ASTM D5185m >5 0 0 0 0 0 0 Antimony ppm ASTM D5185m >5 0 0 0 0 0 0 Antimony ppm ASTM D5185m >5 0 0 0 0 0 0 ADDITIVES method limit/bass current history1 history1 Barrium ppm ASTM D5185m 13 13 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sample Number		Client Info		PCA0103259	PCA0080891	PCA0074809
Dil Age	Sample Date		Client Info		31 Aug 2023	11 Jan 2023	21 Jul 2022
Dil Changed Client Info	Machine Age	mls	Client Info		154458	128802	104208
NORMAL NORMAL ABNORM	Oil Age	mls	Client Info		103804	0	26060
WEAR METALS method limit/base current history1 history1 Iron ppm ASTM DS185m >870 240 241 195 Chromium ppm ASTM DS185m >8 2 2 1 Nickel ppm ASTM DS185m >25 9 9 7 Titanium ppm ASTM DS185m 0 0 0 <1	Oil Changed		Client Info		Changed	Not Changd	Not Changd
Pron	Sample Status				NORMAL	NORMAL	ABNORMAL
Chromium ppm ASTM D5185m >8 2 2 1 Nickel ppm ASTM D5185m >25 9 9 7 Tittanium ppm ASTM D5185m >4 <1 0 0 Silver ppm ASTM D5185m >4 <5 11 12 Acad ppm ASTM D5185m >40 5 11 12 Lead ppm ASTM D5185m >60 <1 <1 <1 Lead ppm ASTM D5185m >60 <1 <1 <1 <1 Lead ppm ASTM D5185m >60 <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 </td <td>WEAR METAL</td> <td>S</td> <td>method</td> <td>limit/base</td> <th>current</th> <td>history1</td> <td>history2</td>	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>870			195
Description	Chromium	ppm	ASTM D5185m	>8		2	1
Silver	Nickel	ppm	ASTM D5185m	>25	9	9	7
ASTM D5185m	Titanium	ppm	ASTM D5185m	>4	<1	0	0
Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >60 <1	Silver	ppm	ASTM D5185m		-		<1
Description	Aluminum	ppm	ASTM D5185m	>40	5	11	12
Trin ppm ASTM D5185m >5 0 0 0 0 0 Antimony ppm ASTM D5185m >5	Lead	ppm	ASTM D5185m	>25	0	0	0
Antimony ppm ASTM D5185m >5 Vanadium ppm ASTM D5185m <1 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history1 Beron ppm ASTM D5185m 246 203 216 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 13 13 12 Manganese ppm ASTM D5185m 4 3 2 Magnesium ppm ASTM D5185m 47 47 49 Calcium ppm ASTM D5185m 115 117 116 Phosphorus ppm ASTM D5185m 1242 1262 1174 Zinc ppm ASTM D5185m 72 83 83 Sulfur ppm ASTM D5185m 25056 25358 24865 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m 2 4 2 Potassium ppm ASTM D5185m 2 4 2 Potassium ppm ASTM D5185m 20 <1 <1 <1 VISUAL method limit/base current history1 history White Metal scalar *Visual NONE NONE NONE NONE Silit scalar *Visual NONE NONE NONE NONE Silit scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NONE NONE NONE Appearance scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML	Copper	ppm	ASTM D5185m	>60	<1	<1	<1
Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 246 203 216 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 13 13 12 Marganese ppm ASTM D5185m 47 47 49 Magnesium ppm ASTM D5185m 115 117 116 Phosphorus ppm ASTM D5185m 1242 1262 1174 Zinc ppm ASTM D5185m 72 83 83 Sulfur ppm ASTM D5185m 25056 25358 24865 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >285 84	Tin	ppm	ASTM D5185m	>5	0	0	0
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 246 203 216 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 13 13 12 Manganese ppm ASTM D5185m 4 3 2 Magnesium ppm ASTM D5185m 47 47 49 Calcium ppm ASTM D5185m 115 117 116 Phosphorus ppm ASTM D5185m 1242 1262 1174 Zinc ppm ASTM D5185m 72 83 83 Sulfur ppm ASTM D5185m 25056 25358 24865 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >285 84 <	Antimony	ppm	ASTM D5185m	>5			
ADDITIVES	Vanadium	ppm	ASTM D5185m		<1	0	0
Boron	Cadmium	ppm	ASTM D5185m		0	0	0
Description	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 13 13 12 Manganese ppm ASTM D5185m 4 3 2 Magnesium ppm ASTM D5185m 47 47 49 Calcium ppm ASTM D5185m 115 117 116 Phosphorus ppm ASTM D5185m 1242 1262 1174 Zinc ppm ASTM D5185m 72 83 83 Sulfur ppm ASTM D5185m 25056 25358 24865 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >285 84 106 97 Sodium ppm ASTM D5185m 2 4 2 Potassium ppm ASTM D5185m 20 <1	Boron	ppm					
Manganese ppm ASTM D5185m 4 3 2 Magnesium ppm ASTM D5185m 47 47 49 Calcium ppm ASTM D5185m 115 117 116 Phosphorus ppm ASTM D5185m 1242 1262 1174 Zinc ppm ASTM D5185m 72 83 83 Sulfur ppm ASTM D5185m 25056 25358 24865 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m 285 84 106 97 Sodium ppm ASTM D5185m 20 <1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 47 47 49 Calcium ppm ASTM D5185m 115 117 116 Phosphorus ppm ASTM D5185m 1242 1262 1174 Zinc ppm ASTM D5185m 72 83 83 Sulfur ppm ASTM D5185m 25056 25358 24865 CONTAMINANTS method limit/base current history1 history1 Soliucon ppm ASTM D5185m >285 84 106 97 Sodium ppm ASTM D5185m 22 4 2 Potassium ppm ASTM D5185m >20 <1		ppm					
Calcium ppm ASTM D5185m 115 117 116 Phosphorus ppm ASTM D5185m 1242 1262 1174 Zinc ppm ASTM D5185m 72 83 83 Sulfur ppm ASTM D5185m 25056 25358 24865 CONTAMINANTS method limit/base current history1 history1 history Solium ppm ASTM D5185m 285 84 106 97 Sodium ppm ASTM D5185m 22 4 2 Potassium ppm ASTM D5185m >20 <1	Manganese	ppm	ASTM D5185m		4	3	2
Phosphorus ppm ASTM D5185m 1242 1262 1174 Zinc ppm ASTM D5185m 72 83 83 Sulfur ppm ASTM D5185m 25056 25358 24865 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >285 84 106 97 Sodium ppm ASTM D5185m 2 4 2 Potassium ppm ASTM D5185m >20 <1	Magnesium	ppm	ASTM D5185m		47	47	
Zinc ppm ASTM D5185m 72 83 83 Sulfur ppm ASTM D5185m 25056 25358 24865 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >285 84 106 97 Sodium ppm ASTM D5185m 2 4 2 Potassium ppm ASTM D5185m >20 <1	Calcium	ppm	ASTM D5185m		115	117	116
Sulfur ppm ASTM D5185m 25056 25358 24865 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >285 84 106 97 Sodium ppm ASTM D5185m 2 4 2 Potassium ppm ASTM D5185m >20 <1	Phosphorus	ppm	ASTM D5185m		1242	1262	1174
CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >285 84 106 97 Sodium ppm ASTM D5185m 2 4 2 Potassium ppm ASTM D5185m >20 <1 <1 <1 <1 VISUAL method limit/base current history1 history White Metal scalar *Visual NONE NONE MODER 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 NONE NONE NONE NONE Appearance scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Codor scalar *Visual NORML NORML NORML NORML NORM Emulsified Water scalar *Visual >.2 NEG NEG NEG	Zinc	ppm	ASTM D5185m		72	83	83
Silicon	Sulfur	ppm	ASTM D5185m		25056	25358	24865
Sodium	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1 <1 <1 <1 VISUAL method limit/base current history1 history White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual 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 NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORM Emulsified Water scalar *Visual >.2 NEG NEG NEG	Silicon	ppm	ASTM D5185m	>285	84		97
VISUAL method limit/base current history1 history White Metal scalar *Visual NONE NONE MODER 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 NORM Emulsified Water scalar *Visual >.2 NEG NEG NEG	Sodium	ppm	ASTM D5185m		2	4	2
White Metal scalar *Visual NONE NONE MODER 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 NORM Emulsified Water scalar *Visual >.2 NEG NEG NEG	Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Yellow Metal scalar *Visual 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 NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual >.2 NEG NEG NEG	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 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	White Metal						
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEG							
Debrisscalar*VisualNONENONENONEMODESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEG	•						
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMEmulsified Waterscalar*Visual>.2NEGNEGNEG							
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEG							▲ MODER
Odor scalar *Visual NORML NORM							
Emulsified Water scalar *Visual >.2 NEG NEG NEG		scalar					NORML
	Odor	scalar				NORML	NORML
Free Water scalar *Visual NEG NEG NEG		scalar	*Visual	>.2		NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG

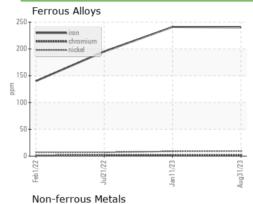


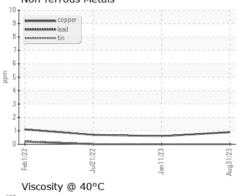
OIL ANALYSIS REPORT

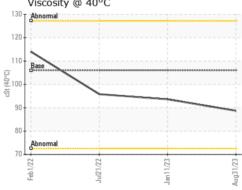


FLUID PROPE	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	106	88.7	93.6	95.8
SAMPLE IMAG	GES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS









Certificate L2367

Laboratory

Sample No. Lab Number Test Package : FLEET

: PCA0103259 : 05942544 Unique Number : 10633156

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 05 Sep 2023 : 07 Sep 2023 Diagnostician : Don Baldridge NW WHITE & CO - ANDERSON DIVISION 2605 RIVER RD

PIEDMONT, SC US 29673 Contact: James Threatt

jthreatt@nwwhite.com T: (864)918-4646

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)