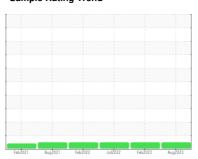


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id DT745 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

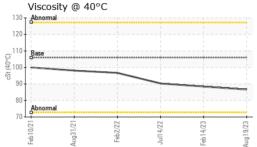
Fluid Condition

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

Client Info	ΓIC GEAR 75W90 (QTS)	Feb 2021	Aug2021 Feb2022	Jul2022 Feb2023	Aug2023	
Sample Date	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Date	Sample Number		Client Info		PCA0103239	PCA0091212	PCA007483
Machine Age mls	•		Client Info		19 Aug 2023	14 Feb 2023	14 Jul 2022
Dil Age	•	mls	Client Info		•	132080	105544
Dil Changed Client Info NoRMAL	•	mls	Client Info		107438	107490	24590
NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history2 history2 cron ppm ASTM D5185m >8 2 2 2 2 2 2 2 2 2	Oil Changed		Client Info		Changed	Not Changd	Not Changd
Chromium	Sample Status				_	Ŭ	
Chromium	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>870	320	286	268
Distribution	Chromium	ppm	ASTM D5185m	>8	2	2	2
Silver	Nickel	ppm	ASTM D5185m	>25	13	11	7
Silver	Titanium	ppm	ASTM D5185m	>4	<1	<1	<1
Lead	Silver		ASTM D5185m		0	0	0
December December	Aluminum	ppm	ASTM D5185m	>40	7	6	7
Copper	Lead			>25	0		<1
Tin	Copper		ASTM D5185m	>60	<1	1	1
Antimony				>5			0
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Borron ppm ASTM D5185m 275 235 261 Barrium ppm ASTM D5185m 0 0 0 2 Molybdenum ppm ASTM D5185m 14 14 14 14 Manganese ppm ASTM D5185m 45 50 50 50 Calcium ppm ASTM D5185m 129 128 129 128 129 Phosphorus ppm ASTM D5185m 1398 1324 1350 94 94 Sulfur ppm ASTM D5185m 78 94 94 94 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 285 166	Antimony		ASTM D5185m	>5			
Description	•				0	0	0
Boron ppm ASTM D5185m 275 235 261							
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 14 14 14 14 Manganese ppm ASTM D5185m 4 4 3 Magnesium ppm ASTM D5185m 45 50 50 Calcium ppm ASTM D5185m 129 128 129 Phosphorus ppm ASTM D5185m 1398 1324 1350 Zinc ppm ASTM D5185m 78 94 94 Sulfur ppm ASTM D5185m 25644 22354 26783 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >285 166 145 145 Sodium ppm ASTM D5185m >285 166 145 145 Potassium ppm ASTM D5185m >20 0 2 2 White Metal scalar *Visual NONE NONE NONE NONE <t< td=""><td>Boron</td><td>ppm</td><td>ASTM D5185m</td><td></td><td>275</td><td>235</td><td>261</td></t<>	Boron	ppm	ASTM D5185m		275	235	261
Molybdenum ppm ASTM D5185m 14 14 14 14 Manganese ppm ASTM D5185m 4 4 3 Magnesium ppm ASTM D5185m 45 50 50 Calcium ppm ASTM D5185m 129 128 129 Phosphorus ppm ASTM D5185m 1398 1324 1350 Zinc ppm ASTM D5185m 78 94 94 Sulfur ppm ASTM D5185m 25644 22354 26783 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >285 166 145 145 Goldium ppm ASTM D5185m >20 0 2 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Vielow	Barium	ppm	ASTM D5185m		0	0	2
Magnesium ppm ASTM D5185m 45 50 50 Calcium ppm ASTM D5185m 129 128 129 Phosphorus ppm ASTM D5185m 1398 1324 1350 Zinc ppm ASTM D5185m 78 94 94 Sulfur ppm ASTM D5185m 25644 22354 26783 CONTAMINANTS method limit/base current history1 history2 Gilicon ppm ASTM D5185m >285 166 145 145 Godium ppm ASTM D5185m >20 0 2 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Wellow Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Yellow Metal scalar	Molybdenum		ASTM D5185m		14	14	14
Magnesium ppm ASTM D5185m 45 50 50 Calcium ppm ASTM D5185m 129 128 129 Phosphorus ppm ASTM D5185m 1398 1324 1350 Zinc ppm ASTM D5185m 78 94 94 Sulfur ppm ASTM D5185m 25644 22354 26783 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >285 166 145 145 Sodium ppm ASTM D5185m >20 0 2 2 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 Yellow Metal scalar	Manganese	ppm	ASTM D5185m		4	4	3
Phosphorus ppm ASTM D5185m 1398 1324 1350 Zinc ppm ASTM D5185m 78 94 94 Sulfur ppm ASTM D5185m 25644 22354 26783 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >285 166 145 145 Sodium ppm ASTM D5185m >20 0 2 2 Potassium ppm ASTM D5185m >20 0 2 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE MONE NONE Vellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Poebris scalar *Visual NONE NONE NONE Poebris	Magnesium	ppm	ASTM D5185m		45	50	50
Post	-	ppm	ASTM D5185m		129	128	129
25	Phosphorus	ppm	ASTM D5185m		1398	1324	1350
Sulfur ppm ASTM D5185m 25644 22354 26783 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >285 166 145 145 Sodium ppm ASTM D5185m 20 0 2 2 Potassium ppm ASTM D5185m >20 0 2 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE MODER NONE NONE White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual			ASTM D5185m		78	94	94
Solition	Sulfur		ASTM D5185m		25644	22354	26783
Sodium	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 2 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE MODER NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual 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 NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG	Silicon	ppm	ASTM D5185m	>285	166	145	145
White Metal scalar *Visual NONE MODER NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE NONE NONE Scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	Sodium	ppm	ASTM D5185m		4	1	0
White Metal scalar *Visual NONE MODER NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual 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 NORML Emulsified Water scalar *Visual >.2 NEG NEG	Potassium	ppm	ASTM D5185m	>20	0	2	2
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 NORML Dodor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water 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 NORML Ddor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG	White Metal	scalar	*Visual	NONE	MODER		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 Ddor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG	Yellow Metal	scalar	*Visual	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 Ddor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEG	Debris	scalar	*Visual	NONE	NONE	NONE	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
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG NEG NEG	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG

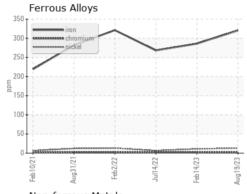


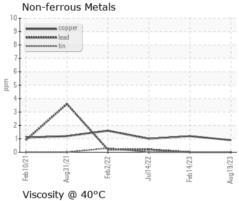
OIL ANALYSIS REPORT

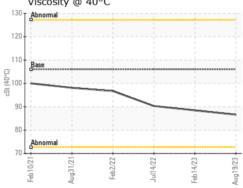


FLUID PROP	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	106	86.6	88.45	90.3
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS









Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: PCA0103239 : 05936437 : 10621708

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Aug 2023 Diagnosed : 29 Aug 2023

Diagnostician : Don Baldridge

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)

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