

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id DT796 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

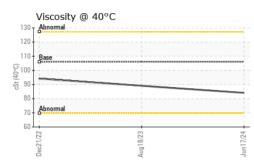
The condition of the oil is acceptable for the time in service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0089201	PCA0074017	PCA0080982
Sample Date		Client Info		17 Jun 2024	18 Aug 2023	21 Dec 2022
Machine Age	mls	Client Info		133409	103036	78459
Oil Age	mls	Client Info		54950	24577	78459
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	85	83	187
Chromium	ppm	ASTM D5185m	>10	<1	<1	1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	1	1
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	10	<1	41
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		200	201	252
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		11	11	<1
Manganese	ppm	ASTM D5185m		5	2	21
Magnesium	ppm	ASTM D5185m		117	120	<1
Calcium	ppm	ASTM D5185m		183	176	6
Phosphorus	ppm	ASTM D5185m		1310	1439	1395
Zinc	ppm	ASTM D5185m		183	176	8
Sulfur	ppm	ASTM D5185m		23170	23480	25056
CONTAMINAN	ITS	method				In the Lowert of
		methou	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		current 22	history1 12	46
Silicon Sodium						
	ppm	ASTM D5185m	>75	22	12	46
Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>75	22 3	12 2	46 5
Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20	22 3 2 current NONE	12 2 0	46 5 3
Sodium Potassium VISUAL	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> *Visual *Visual	>75 >20 limit/base	22 3 2 current	12 2 0 history1	46 5 3 history2
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE	22 3 2 current NONE NONE NONE	12 2 0 history1 NONE	46 5 3 history2 NONE NONE NONE
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m •Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE	22 3 2 current NONE NONE NONE NONE	12 2 0 history1 NONE NONE NONE NONE	46 5 3 history2 NONE NONE NONE NONE
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE	22 3 2 current NONE NONE NONE NONE NONE	12 2 0 history1 NONE NONE NONE	46 5 3 history2 NONE NONE NONE
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m •Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE	22 3 2 current NONE NONE NONE NONE	12 2 0 history1 NONE NONE NONE NONE	46 5 3 history2 NONE NONE NONE NONE
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE NONE	22 3 2 current NONE NONE NONE NONE NONE	12 2 0 history1 NONE NONE NONE NONE NONE	46 5 3 NONE NONE NONE NONE NONE NONE NONE
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 Iimit/base NONE NONE NONE NONE NONE	22 3 2 current NONE NONE NONE NONE NONE NONE	12 2 0 history1 NONE NONE NONE NONE NONE	46 5 3 NONE NONE NONE NONE NONE NONE NONE
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE NORE	22 3 2 current NONE NONE NONE NONE NONE NONE NORML	12 2 0 history1 NONE NONE NONE NONE NONE NONE NONE	46 5 3 NONE NONE NONE NONE NONE NONE NONE NO
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 20 imit/base NONE NONE NONE NONE NONE NORML NORML >.2	22 3 2 current NONE NONE NONE NONE NONE NORML NORML NORML NEG NEG	12 2 0 history1 NONE NONE NONE NONE NONE NORML NORML	46 5 3 NONE NONE NONE NONE NONE NORML NORML NEG NEG

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# **OIL ANALYSIS REPORT**



	ERTIES	method	limit/base	current	history1	histor
Visc @ 40°C	cSt	ASTM D445	106	84.1	89.1	94.2
SAMPLE IMA	GES	method	limit/base	current	history1	histor
Color					no image	no imag
-						
Bottom					no image	no imag
GRAPHS						
Ferrous Alloys						
180 - iron						
160 nickel						
120						
톱 100 - 80 -						
60 -						
40						
0						
Dec21/22	Aug18/23		Jun 17/24			
ے Non-ferrous Met			٦٢			
45 conner						
40 35						
30						
E <sup>25</sup> 20						
15						
10-						
5	1-					
1/22	Aug18/23		Jun17/24			
Dec21/22			Jun1			
Viscosity @ 40°C	2					
120 -	1					
110						
Dase						
(), 100 (), 10						
80						
70 - Abnormal						
60						
	Aug18/23 -		Jun17/24 -			
Dec21/22			-			

FLUID PROPERTIES method limit/base current history1 history2



Unique Number : 11102053 Diagnosed : 01 Jul 2024 - Don Baldridge Test Package : FLEET Certificate 12367 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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