

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id DT779

Component Rear Axle

Fluid CHEVRON RPM SYNTHETIC GEAR 75W90 (--- GAL)

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.

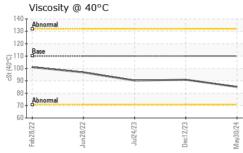
Fluid Condition

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		PCA0125383	PCA0114672	PCA0100022
Sample Date		Client Info		30 May 2024	12 Dec 2023	24 Jul 2023
Machine Age	mls	Client Info		154121	154121	128127
Oil Age	mls	Client Info		154121	154121	128127
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	125	248	138
Chromium	ppm	ASTM D5185m	>10	1	2	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	14	11	4
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	2	11
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		221	207	246
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m		221 0	207 0	246 0
Barium	ppm	ASTM D5185m		0	0	0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 10	0 9	0 9
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 10 1	0 9 3	0 9 6
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 10 1 64	0 9 3 105	0 9 6 114
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 10 1 64 241	0 9 3 105 206	0 9 6 114 228
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 10 1 64 241 1304	0 9 3 105 206 1311	0 9 6 114 228 1364
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 10 1 64 241 1304 157	0 9 3 105 206 1311 186	0 9 6 114 228 1364 197
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 10 1 64 241 1304 157 24709	0 9 3 105 206 1311 186 20187	0 9 6 114 228 1364 197 25056
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method		0 10 1 64 241 1304 157 24709 current	0 9 3 105 206 1311 186 20187 history1	0 9 6 114 228 1364 197 25056 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>75	0 10 1 64 241 1304 157 24709 current 58	0 9 3 105 206 1311 186 20187 history1 53	0 9 6 114 228 1364 197 25056 history2 28
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>75	0 10 1 64 241 1304 157 24709 current 58 4	0 9 3 105 206 1311 186 20187 history1 53 4	0 9 6 114 228 1364 197 25056 history2 28 3
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>75 >20	0 10 1 64 241 1304 157 24709 current 58 4 3	0 9 3 105 206 1311 186 20187 history1 53 4 0	0 9 6 114 228 1364 197 25056 history2 28 3 3 3
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>75 >20 limit/base	0 10 1 64 241 1304 157 24709 current 58 4 3	0 9 3 105 206 1311 186 20187 history1 53 4 0 bistory1	0 9 6 114 228 1364 197 25056 history2 28 3 3 3 3
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yisual	>75 >20 limit/base NONE	0 10 1 64 241 1304 157 24709 current 58 4 3 current MODER	0 9 3 105 206 1311 186 20187 history1 53 4 0 history1 NONE	0 9 6 114 228 1364 197 25056 history2 28 3 3 3 3 history2 NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m Yisual *Visual *Visual	>75 >20 limit/base NONE NONE	0 10 1 64 241 1304 157 24709 Current 58 4 3 Current MODER NONE NONE NONE MODER	0 9 3 105 206 1311 186 20187 history1 53 4 0 history1 NONE NONE	0 9 6 114 228 1364 197 25056 history2 28 3 3 3 history2 NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m Yisual	>75 >20 limit/base NONE NONE NONE	0 10 1 64 241 1304 157 24709 current 58 4 3 current MODER NONE NONE	0 9 3 105 206 1311 186 20187 history1 53 4 0 history1 NONE NONE NONE NONE LIGHT NONE	0 9 6 114 228 1364 197 25056 history2 28 3 3 3 3 history2 NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm trs ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m Yisual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE	0 10 1 64 241 1304 157 24709 Current 58 4 3 Current MODER NONE NONE NONE MODER	0 9 3 105 206 1311 186 20187 history1 53 4 0 history1 NONE NONE NONE NONE LIGHT	0 9 6 114 228 1364 197 25056 history2 28 3 3 3 history2 NONE NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yisual *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE NONE	0 10 1 64 241 1304 157 24709 Current 58 4 3 Current MODER NONE NONE MODER NONE	0 9 3 105 206 1311 186 20187 history1 53 4 0 history1 NONE NONE NONE NONE LIGHT NONE	0 9 6 114 228 1364 197 25056 history2 28 3 3 3 history2 NONE NONE NONE NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE NONE	0 10 10 1 64 241 1304 157 24709 current 58 4 3 current MODER NONE NONE NONE NONE NONE NONE NONE	0 9 3 105 206 1311 186 20187 history1 53 4 0 history1 NONE NONE NONE LIGHT NONE LIGHT NONE NONE	0 9 6 114 228 1364 197 25056 history2 28 3 3 3 history2 28 3 3 NONE NONE NONE NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm trs ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	0 10 10 1 64 241 1304 157 24709 Current 58 4 3 Current MODER NONE NONE NONE NONE NONE NONE NONE NONE NONE	0 9 3 105 206 1311 186 20187 history1 53 4 0 53 4 0 NONE NONE NONE LIGHT NONE LIGHT NONE NONE NONE NONE NONE	0 9 6 114 228 1364 197 25056 history2 28 3 3 3 history2 NONE NONE NONE NONE NONE NONE NONE NON
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS TS S scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 20 imit/base NONE NONE NONE NONE NONE NONE NONE NORML NORML	0 10 1 64 241 1304 157 24709 Current 58 4 3 Current MODER NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	0 9 3 105 206 1311 186 20187 history1 53 4 0 0 history1 53 4 0 0 history1 NONE NONE LIGHT NONE LIGHT NONE NONE NONE NONE NONE NONE NONE NON	0 9 6 114 228 1364 197 25056 history2 28 3 3 3 history2 NONE NONE NONE NONE NONE NONE NONE NON



OIL ANALYSIS REPORT



	FLUID PROPERTIES	method	limit/base	current	history1	history2
	Visc @ 40°C cSt	ASTM D445	110	85.1	90.9	90.2
	SAMPLE IMAGES	method	limit/base	current	history1	history2
	Color			no image	no image	no image
Dec12/23 May30/24	Bottom			no image	no image	no image
	GRAPHS					
	Ferrous Alloys	Dec12/23	Marj30/24			
Laboratory Sample No. Lab Number Unique Number Test Package	: 06198050 Test : 11060173 Diag	eived : 03 ed : 04	, NC 27513 Jun 2024 Jun 2024 Jun 2024 - W	es Davis		IDENCE BLVD COLUMBIA, SC US 29210



 Certificate L2367
 Test Package
 : FLEET
 Contact

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
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 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: Paul Riddick Page 2 of 2

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