

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

DT683

Component Rear Differential

Fluid CHEVRON RPM SYNTHETIC GEAR 75W90 (3 mls)

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.

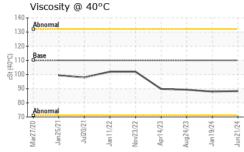
Fluid Condition

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

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0124345	PCA0111618	PCA0101866
Sample Date		Client Info		21 Jun 2024	19 Jan 2024	24 Aug 2023
Machine Age	mls	Client Info		22526	22526	22526
Oil Age	mls	Client Info		22526	22526	22526
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
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	168	212	182
Chromium	ppm	ASTM D5185m	>10	<1	1	1
Nickel	ppm	ASTM D5185m	>10	7	11	9
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	3	3	5
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	<1	1	1
Tin	ppm	ASTM D5185m	>10	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		245	189	194
201011	ppin			245	103	
Barium	ppm	ASTM D5185m		0	2	<1
				-		<1 10
Barium	ppm	ASTM D5185m		0	2	
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 13 1 61	2 12	10 2 55
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 13 1	2 12 3	10 2
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 13 1 61	2 12 3 56	10 2 55
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 13 1 61 107	2 12 3 56 126	10 2 55 135
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 13 1 61 107 1450	2 12 3 56 126 1248	10 2 55 135 1255
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 13 1 61 107 1450 115	2 12 3 56 126 1248 99	10 2 55 135 1255 112
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 13 1 61 107 1450 115 22850	2 12 3 56 126 1248 99 24980	10 2 55 135 1255 112 24464
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 13 1 61 107 1450 115 22850 current	2 12 3 56 126 1248 99 24980 history1	10 2 55 135 1255 112 24464 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 13 1 61 107 1450 115 22850 current 49	2 12 3 56 126 1248 99 24980 history1 70	10 2 55 135 1255 112 24464 <u>history2</u> 66
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 13 1 61 107 1450 115 22850 current 49 <1	2 12 3 56 126 1248 99 24980 history1 70 <1	10 2 55 135 1255 112 24464 history2 66 5
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>75 >20 limit/base NONE	0 13 1 61 107 1450 115 22850 current 49 <1 2 2 current NONE	2 12 3 56 126 1248 99 24980 history1 70 <1 3 3 history1 NONE	10 2 55 135 1255 112 24464 history2 66 5 2 2 history2 NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m YUSUAL	>75 >20 limit/base NONE NONE	0 13 1 61 107 1450 115 22850 <u>current</u> 49 <1 2 <u>current</u> NONE NONE	2 12 3 56 126 1248 99 24980 <u>history1</u> 70 <1 3 <i>history1</i> NONE NONE	10 2 55 135 1255 112 24464 history2 66 5 2 2 history2
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 13 1 61 107 1450 115 22850 current 49 <1 2 current NONE NONE NONE NONE	2 12 3 56 126 1248 99 24980 history1 70 <1 3 3 history1 NONE	10 2 55 135 1255 112 24464 <u>history2</u> 66 5 2 2 <u>history2</u> NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m Yuisual *Visual *Visual	>75 >20 limit/base NONE NONE	0 13 1 61 107 1450 115 22850 current 49 <1 2 current NONE NONE NONE NONE NONE	2 12 3 56 126 1248 99 24980 <u>history1</u> 70 <1 3 <i>history1</i> NONE NONE	10 2 55 135 1255 112 24464 history2 66 5 2 2 history2 NONE NONE NONE NONE 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 13 1 61 107 1450 115 22850 <u>current</u> 49 <1 2 2 <u>current</u> NONE NONE NONE	2 12 3 56 126 1248 99 24980 history1 70 <1 3 3 history1 NONE NONE NONE NONE	10 2 55 135 1255 112 24464 history2 66 5 2 2 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 ppm	ASTM D5185m ASTM D5185m Yuisual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE	0 13 1 61 107 1450 115 22850 current 49 <1 2 current NONE NONE NONE NONE NONE	2 12 3 56 126 1248 99 24980 history1 70 <1 3 VONE NONE NONE NONE NONE NONE	10 2 55 135 1255 112 24464 history2 66 5 2 2 history2 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	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 13 1 61 107 1450 115 22850 current 49 <1 2 current NONE NONE NONE NONE NONE NONE NONE	2 12 3 56 126 1248 99 24980 history1 70 <1 3 Vistory1 NONE NONE NONE NONE NONE NONE NONE	10 2 55 135 1255 112 24464 history2 66 5 2 66 5 2 VONE 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 13 1 61 107 1450 115 22850 current 49 <1 2 current NONE NONE NONE NONE NONE NONE NONE NONE	2 12 3 56 126 1248 99 24980 history1 70 <1 3 	10 2 55 135 1255 112 24464 history2 66 5 2 66 5 2 NONE NONE NONE NONE NONE NONE NONE NO
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm TS 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 13 1 61 107 1450 115 22850 Current 49 <1 2 Current NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	2 12 3 56 126 1248 99 24980 history1 70 <1 3 NONE NONE NONE NONE NONE NONE NONE N	10 2 55 135 1255 112 24464 history2 66 5 2 bistory2 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 TS TS TS S 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 NON	0 13 1 61 107 1450 115 22850 Current 49 <1 2 Current NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	2 12 3 56 126 1248 99 24980 history1 70 <1 3 history1 NONE NONE NONE NONE NONE NONE NONE NON	10 2 55 135 1255 112 24464 history2 66 5 2 66 5 2 2 history2 NONE NONE NONE NONE NONE NONE NONE NON



OIL ANALYSIS REPORT



	FLUID PROF	PERTIES	method	limit/base	current	history1	history2
(7) 97 97	Visc @ 40°C	cSt	ASTM D445	110	88.3	87.9	89.3
	SAMPLE IM	AGES	method	limit/base	current	history1	history2
	Color				no image	no image	no image
Aug24/23 Jan19/24 Jun21/24	Bottom				no image	no image	no image
	Non-ferrous Me	etals	Apr14/23 Aug24/23 Jan 19/24	Jun21/24			
Laboratory	: WearCheck USA -	501 Madis		/, NC 27513		ITE & CO - BEAU	
Sample No. Lab Number	: PCA0124345	Rece Test	eived : 02	2 Jul 2024 3 Jul 2024		1491 YENMASS V	SEE HIGHWAY ARNVILLE, SC



Diagnosed Unique Number : 11110087 : 03 Jul 2024 - Wes Davis Test Package : FLEET Certificate L2367 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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Report Id: NWWVAR [WUSCAR] 06226594 (Generated: 07/04/2024 04:41:15) Rev: 1

Submitted By: DAVID WEBB Page 2 of 2