

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id DT711 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.

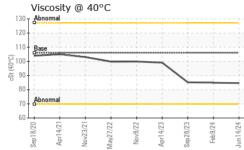
Fluid Condition

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

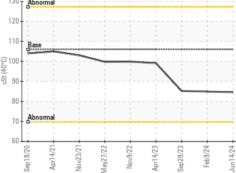
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0124339	PCA0111645	PCA0101895
Sample Date		Client Info		14 Jun 2024	09 Feb 2024	28 Sep 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	63	53	52
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	<1	0
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	<1	<1	0
Tin	ppm	ASTM D5185m	>10	0	<1	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		213	220	229
	pp			210	110	
Barium	ppm	ASTM D5185m		0	1	0
				-		0
Barium	ppm	ASTM D5185m		0	1	
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 19	1 18	19
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 19 1	1 18 1	19 1
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 19 1 89	1 18 1 89	19 1 97
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 19 1 89 179	1 18 1 89 122	19 1 97 195
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 19 1 89 179 1303	1 18 1 89 122 1255	19 1 97 195 1280
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 19 1 89 179 1303 168	1 18 1 89 122 1255 136	19 1 97 195 1280 159
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 19 1 89 179 1303 168 19074	1 18 1 89 122 1255 136 19849	19 1 97 195 1280 159 21174
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 19 1 89 179 1303 168 19074 current	1 18 1 89 122 1255 136 19849 history1	19 1 97 195 1280 159 21174 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 method ASTM D5185m	>75	0 19 1 89 179 1303 168 19074 <u>current</u> 10	1 18 1 89 122 1255 136 19849 history1 6	19 1 97 195 1280 159 21174 history2 6
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 19 1 89 179 1303 168 19074 <u>current</u> 10 0	1 18 1 89 122 1255 136 19849 history1 6 3	19 1 97 195 1280 159 21174 history2 6 2
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 19 1 89 179 1303 168 19074 <u>current</u> 10 0 <1	1 18 1 89 122 1255 136 19849 history1 6 3 2	19 1 97 195 1280 159 21174 history2 6 2 0
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 19 1 89 179 1303 168 19074 <i>current</i> 10 0 <1	1 18 1 89 122 1255 136 19849 history1 6 3 2 history1	19 1 97 195 1280 159 21174 history2 6 2 0 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ypm ypm	ASTM D5185m ASTM D5185m	>75 >20 limit/base NONE	0 19 1 89 179 1303 168 19074 current 10 0 <1 current NONE	1 18 1 89 122 1255 136 19849 history1 6 3 2 history1 NONE	19 1 97 195 1280 159 21174 <u>history2</u> 6 2 2 0 <u>history2</u> NONE 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 VTS	ASTM D5185m ASTM D5185m YUSUAL	>75 >20 limit/base NONE NONE	0 19 1 89 179 1303 168 19074 <u>current</u> 10 0 <1 <u>current</u> NONE NONE	1 18 1 89 122 1255 136 19849 history1 6 3 2 history1 NONE NONE NONE NONE NONE NONE	19 1 97 195 1280 159 21174 history2 6 2 2 0 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 ypm ypm ypm	ASTM D5185m ASTM D5185m Yisual	>75 >20 limit/base NONE NONE NONE	0 19 1 89 179 1303 168 19074 <i>current</i> 10 0 <1 <i>current</i> NONE NONE NONE NONE	1 18 1 89 122 1255 136 19849 history1 6 3 2 history1 NONE NONE NONE NONE	19 1 97 195 1280 159 21174 <u>history2</u> 6 2 2 0 <u>history2</u> 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 ypm ypm	ASTM D5185m ASTM D5185m XM D5185m XM D5185m XM D5185m XM D5185m XM D5185m XM D5185m XM D5185m	>75 >20 limit/base NONE NONE NONE NONE	0 19 1 89 179 1303 168 19074 <u>current</u> 10 0 <1 <u>current</u> NONE NONE NONE NONE NONE	1 18 1 89 122 1255 136 19849 history1 6 3 2 history1 NONE NONE NONE NONE NONE NONE	19 1 97 195 1280 159 21174 <u>history2</u> 6 2 2 0 <u>history2</u> 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 ypm ypm	ASTM D5185m ASTM D5185m Yisual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE NONE	0 19 1 89 179 1303 168 19074 <i>current</i> 10 0 <1 <i>current</i> NONE NONE NONE NONE NONE NONE NONE	1 18 1 89 122 1255 136 19849 history1 6 3 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	19 1 97 195 1280 159 21174 history2 6 2 0 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 ypm ypm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE NONE	0 19 1 89 179 1303 168 19074 Current 10 0 <1 NONE NONE NONE NONE NONE NONE NONE NONE NONE	1 18 1 89 122 1255 136 19849 history1 6 3 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	19 1 97 195 1280 159 21174 history2 6 2 0 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	ppm ppm ppm ppm ppm ppm ppm ppm ypm ypm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	0 19 1 89 179 1303 168 19074 Current 10 0 <1 Current NONE NONE NONE NONE NONE NONE NONE NONE NONE	1 18 1 89 122 1255 136 19849 history1 6 3 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	19 1 97 195 1280 159 21174 history2 6 2 0 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 ypm ypm	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 19 1 89 179 1303 168 19074 Current 10 0 <1 Current NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	1 18 1 89 122 1255 136 19849 history1 6 3 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	19 1 97 195 1280 159 21174 history2 6 2 2 0 history2 NONE NONE NONE NONE NONE NONE NONE NON



OIL ANALYSIS REPORT



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Bottom no image no image no image GRAPHS Ferrous Alloys 0 0 0 0 0 0 0 0 0 0 0 0 0	SAMPLE IMA	GES	method	limit/base	current	history1	history2
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Viscosity @ 40°C	8/20	9/22	4/23 8/23 3/24	4/24			
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Lab Number : 06226590 Tested : 03 Jul 2024 Unique Number : 11110083 : 03 Jul 2024 - Wes Davis Diagnosed 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)

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

Received

: 02 Jul 2024

NW WHITE & CO - BEAUFORT DIVISION 1491 YENMASSEE HIGHWAY VARNVILLE, SC US 29944 Contact: VINCENT BULLOCK bullockvince514@gmail.com T: F:

Report Id: NWWVAR [WUSCAR] 06226590 (Generated: 07/04/2024 04:41:02) Rev: 1

Laboratory

Sample No. : PCA0124339

Submitted By: DAVID WEBB Page 2 of 2