

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

DT665

Component Front Differential

Fluid CHEVRON RPM SYNTHETIC GEAR 75W90 (4 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.

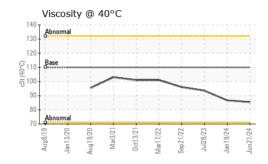
Fluid Condition

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

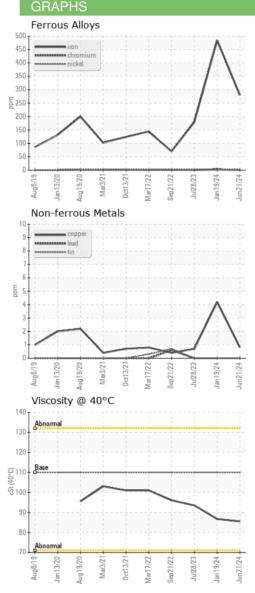
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0124330	PCA0111638	PCA0101884
Sample Date		Client Info		21 Jun 2024	19 Jan 2024	28 Jul 2023
Machine Age	mls	Client Info		75000	75000	75000
Oil Age	mls	Client Info		75000	75000	75000
Oil Changed		Client Info		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	280	484	179
Chromium	ppm	ASTM D5185m	>10	<1	3	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	8	4
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	<1	4	<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		218	322	265
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m		218 0	2	0
				-		
Barium	ppm	ASTM D5185m		0	2	0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 12	2 18 6 99	0 3
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 12 3	2 18 6	0 3 3
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 12 3 59	2 18 6 99	0 3 3 20
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 12 3 59 112	2 18 6 99 210	0 3 3 20 49
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 12 3 59 112 1288	2 18 6 99 210 1897	0 3 3 20 49 1332
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 12 3 59 112 1288 118	2 18 6 99 210 1897 168	0 3 20 49 1332 37
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 12 3 59 112 1288 118 19924	2 18 6 99 210 1897 168 37476	0 3 20 49 1332 37 23794
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		0 12 3 59 112 1288 118 19924 current	2 18 6 99 210 1897 168 37476 history1	0 3 20 49 1332 37 23794 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 12 3 59 112 1288 118 19924 current 39	2 18 6 99 210 1897 168 37476 history1 64	0 3 20 49 1332 37 23794 history2 20
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 12 3 59 112 1288 118 19924 current 39 0	2 18 6 99 210 1897 168 37476 history1 64 1	0 3 20 49 1332 37 23794 history2 20 0
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>75 >20	0 12 3 59 112 1288 118 19924 current 39 0 1	2 18 6 99 210 1897 168 37476 history1 64 1 2	0 3 3 20 49 1332 37 23794 history2 20 0 <1
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm ppm ypm	ASTM D5185m ASTM D5185m	>75 >20 limit/base	0 12 3 59 112 1288 118 19924 <i>current</i> 39 0 1	2 18 6 99 210 1897 168 37476 history1 64 1 2 history1	0 3 3 20 49 1332 37 23794 history2 20 0 <1 kistory2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm VTS	ASTM D5185m ASTM D5185m	>75 >20 limit/base NONE	0 12 3 59 112 1288 118 19924 current 39 0 1 1 current NONE	2 18 6 99 210 1897 168 37476 history1 64 1 2 history1 NONE	0 3 3 20 49 1332 37 23794 <u>history2</u> 20 0 <1 <u>history2</u> LIGHT 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	>75 >20 limit/base NONE NONE	0 12 3 59 112 1288 118 19924 <u>current</u> 39 0 1 1 <u>current</u> NONE NONE	2 18 6 99 210 1897 168 37476 history1 64 1 2 history1 NONE NONE	0 3 3 20 49 1332 37 23794 <u>history2</u> 20 0 <1 <u>history2</u> LIGHT 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 *Visual	>75 >20 limit/base NONE NONE NONE	0 12 3 59 112 1288 118 19924 <u>current</u> 39 0 1 1 <u>current</u> NONE NONE NONE	2 18 6 99 210 1897 168 37476 history1 64 1 2 history1 NONE NONE NONE NONE	0 3 3 20 49 1332 37 23794 <u>history2</u> 20 0 <1 <u>history2</u> LIGHT 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 *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE	0 12 3 59 112 1288 118 19924 <i>current</i> 39 0 1 1 <i>current</i> NONE NONE NONE NONE	2 18 6 99 210 1897 168 37476 history1 64 1 2 history1 NONE NONE NONE NONE NONE NONE	0 3 3 20 49 1332 37 23794 <u>history2</u> 20 0 <1 <u>history2</u> LIGHT 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 Yuisual *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE NONE	0 12 3 59 112 1288 118 19924 <i>current</i> 39 0 1 1 <i>current</i> NONE NONE NONE NONE NONE	2 18 6 99 210 1897 168 37476 history1 64 1 2 history1 NONE NONE NONE NONE NONE NONE NONE	0 3 3 20 49 1332 37 23794 history2 20 0 <1 kistory2 LIGHT 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 Yisual *Visual *Visual *Visual *Visual *Visual	>75 >20 Iimit/base NONE NONE NONE NONE NONE	0 12 3 59 112 1288 118 19924 <i>current</i> 39 0 1 1 <i>current</i> NONE NONE NONE NONE NONE NONE NONE NON	2 18 6 99 210 1897 168 37476 history1 64 1 2 history1 NONE NONE NONE NONE NONE NONE NONE NONE	0 3 3 20 49 1332 37 23794 history2 20 0 <1 LIGHT LIGHT 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 Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ypm ppm p	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE NON	0 12 3 59 112 1288 118 19924 <i>current</i> 39 0 1 1 <i>current</i> NONE NONE NONE NONE NONE NONE NONE NON	2 18 6 99 210 1897 168 37476 history1 64 1 2 history1 NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	0 3 3 20 49 1332 37 23794 23794 20 0 <1 20 0 <1 LIGHT 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 *Visual	>75 20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	0 12 3 59 112 1288 118 19924 Current 39 0 1 Current NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	2 18 6 99 210 1897 168 37476 history1 64 1 2 history1 64 1 2 NONE NOR NONE NOR NONE NONE NONE NONE NONE NONE NOR NONE NONE NONE NOR NOR NOR NOR NOR NOR NOR NOR	0 3 3 20 49 1332 37 23794 history2 20 0 <1 history2 LIGHT NONE NONE NONE NONE NONE NONE NONE NON



OIL ANALYSIS REPORT



FLUID PROF	PERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	110	85.5	86.7	93.5
SAMPLE IM	AGES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image





NW WHITE & CO - BEAUFORT DIVISION Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : PCA0124330 Received : 02 Jul 2024 1491 YENMASSEE HIGHWAY Lab Number : 06226599 Tested : 03 Jul 2024 Unique Number : 11110092 Diagnosed : 03 Jul 2024 - Wes Davis Test Package : FLEET Contact: VINCENT BULLOCK Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bullockvince514@gmail.com

* - 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)

VARNVILLE, SC

US 29944

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