

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

Component **Front Differential**

Elui

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

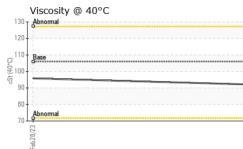
The condition of the oil is acceptable for the time in service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0107508	PCA0090358	
Sample Date		Client Info		23 Oct 2023	28 Feb 2023	
Machine Age	mls	Client Info		218176	218176	
Oil Age	mls	Client Info		218176	75000	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	116	58	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>25	3	0	
Lead	ppm	ASTM D5185m	>25	0	<1	
Copper	ppm	ASTM D5185m	>100	1	<1	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	0000	ASTM D5185m		054	050	
DOIOII	ppm	ASTIVI DOTODITI		351	250	
Barium	ppm	ASTM D5185m		351 5	0	
Barium	ppm	ASTM D5185m		5	0	
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		5 0	0 0	
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		5 0 5	0 0 4	
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		5 0 5 <1	0 0 4 0	
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		5 0 5 <1 <1	0 0 4 0 1	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		5 0 5 <1 <1 1477	0 0 4 0 1 1282	
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	5 0 5 <1 <1 1477 5	0 0 4 0 1 1282 0	
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	limit/base >75	5 0 5 <1 <1 1477 5 30029	0 0 4 0 1 1282 0 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		5 0 5 <1 <1 1477 5 30029 current	0 0 4 0 1 1282 0 25056 history1	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>75	5 0 5 <1 <1 <1 1477 5 30029 current 19	0 0 4 0 1 1282 0 25056 history1 9	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>75	5 0 5 <1 <1 1477 5 30029 current 19 0	0 0 4 0 1 1282 0 25056 history1 9 2	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	>75 >20 limit/base NONE	5 0 5 <1 <1 1477 5 30029 current 19 0 2	0 0 4 0 1 1282 0 25056 history1 9 2 1	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	>75 >20 limit/base	5 0 5 <1 <1 1477 5 30029 current 19 0 2 2 current	0 0 4 0 1 1282 0 25056 history1 9 2 2 1 history1	 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	>75 >20 limit/base NONE	5 0 5 <1 <1 1477 5 30029 current 19 0 2 2 current NONE	0 0 4 0 1 1282 0 25056 history1 9 2 2 1 1 history1 NONE	 history2 history2
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 ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m YUSUAL	>75 >20 limit/base NONE NONE	5 0 5 <1 <1 1477 5 30029 current 19 0 2 current NONE NONE NONE	0 0 4 0 1 1282 0 25056 history1 9 2 2 1 9 2 1 1 <i>history1</i> <i>history1</i> <i>NONE</i> <i>NONE</i>	 history2 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 TS ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m Yisual	>75 >20 limit/base NONE NONE NONE	5 0 5 <1 <1 1477 5 30029 <u>current</u> 19 0 2 2 <u>current</u> NONE NONE NONE	0 0 4 0 1 1282 0 25056 history1 9 2 2 1 1 <u>history1</u> NONE NONE NONE NONE	 history2 history2
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 ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m XM D5185m XW D5185m XW D5185m XM D5185m XM D5185m	>75 >20 limit/base NONE NONE NONE NONE	5 0 5 <1 <1 <1 1477 5 30029 current 19 0 2 2 current NONE NONE NONE NONE NONE	0 0 4 0 1 1282 0 25056 history1 9 2 2 1 1 <u>history1</u> NONE NONE NONE NONE NONE	 history2 history2 history2
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	>75 >20 limit/base NONE NONE NONE NONE NONE	5 0 5 <1 <1 1477 5 30029 current 19 0 2 2 current NONE NONE NONE NONE NONE NONE	0 0 4 0 1 1282 0 25056 history1 9 2 1 1 <u>history1</u> NONE NONE NONE NONE NONE NONE	 history2 history2
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 TS ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE NONE	5 0 5 <1 <1 1477 5 30029 current 19 0 2 2 current NONE NONE NONE NONE NONE NONE NONE NON	0 0 4 0 1 1282 0 25056 history1 9 2 1 1 9 2 1 1 NONE NONE NONE NONE NONE NONE NONE	 history2 history2 history2
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 TS ppm 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	5 0 5 <1 <1 1477 5 30029 current 19 0 2 current 19 0 2 current NONE NONE NONE NONE NONE NONE NONE NON	0 0 4 0 1 1282 0 25056 history1 9 2 1 9 2 1 1 NONE NONE NONE NONE NONE NONE NONE	 history2 history2
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 TS ppm ppm ppm ppm 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	5 0 5 <1 <1 1477 5 30029 current 19 0 2 current NONE NONE NONE NONE NONE NONE NONE NON	0 0 4 0 1 1282 0 25056 history1 9 2 2 1 NONE NONE NONE NONE NONE NONE NONE N	history2 history2

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OIL ANALYSIS REPORT



C	FLUID PROP	ERTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	106	92.1	95.8	
	SAMPLE IMA	GES	method	limit/base	current	history1	history2
23	Color				no image	no image	no image
0ct23/23	Bottom				no image	no image	no image
	GRAPHS						
	Non-ferrous Met	als		0ct2373			
	Viscosity @ 40°C			EZEE200 y, NC 27511 Nov 2023	3 NW WH	ITE & CO - COLU	
Lab Number Unique Number	: 06010389 : 10749533 : FLEET ontact Customer Sel re outside of the ISO	Diagnos Diagnos rvice at 1-8 17025 sco	ed : 20 N tician : Sea 800-237-1369 ope of accred	100 INDEPENDENCE BLVD COLUMBIA, SC US 29210 Contact: GEORGE EDWARDS gedwards@nwwhite.com T: ICGM 106:2012) F:			