

OIL ANALYSIS REPORT

Sample Rating Trend



DT672

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.

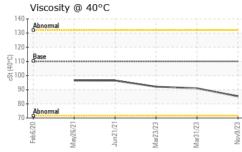
Fluid Condition

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0089162	PCA0074057	PCA0089266
Sample Date		Client Info		09 Nov 2023	31 Mar 2023	23 Mar 2023
Machine Age	mls	Client Info		177956	155648	154921
Oil Age	mls	Client Info		23035	78821	78094
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT		method	limit/base		history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	-	history1	history2
Iron	ppm	ASTM D5185m	>500	82	67	327
Chromium	ppm	ASTM D5185m		0	<1	1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m	210	0	0	<1
Silver		ASTM D5185m		0	0	0
	ppm		. 05			
Aluminum	ppm	ASTM D5185m		3	2	10
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	0	0	3
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Antimony	ppm	ASTM D5185m	>5			
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		194	263	243
	ppm	AGTIVI DJ TOJITI		194	200	240
Barium	ppm	ASTM D5185m		0	0	0
				-		
Barium	ppm	ASTM D5185m		0	0	0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 9	0 9	0 <1
Barium Molybdenum Manganese	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 9 1 103	0 9 3	0 <1 15
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 9 1	0 9 3 95	0 <1 15 <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		0 9 1 103 155	0 9 3 95 134 1383	0 <1 15 <1 7 1386
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 9 1 103 155 1409	0 9 3 95 134	0 <1 15 <1 7
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 9 1 103 155 1409 170 23193	0 9 3 95 134 1383 151	0 <1 15 <1 7 1386 18
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 9 1 103 155 1409 170 23193	0 9 3 95 134 1383 151 26560	0 <1 15 <1 7 1386 18 27877
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		0 9 1 103 155 1409 170 23193 current 9	0 9 3 95 134 1383 151 26560 history1 18	0 <1 15 <1 7 1386 18 27877 history2 60
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 9 1 103 155 1409 170 23193 current	0 9 3 95 134 1383 151 26560 history1	0 <1 15 <1 7 1386 18 27877 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	0 9 1 103 155 1409 170 23193 current 9 <1 0	0 9 3 95 134 1383 151 26560 history1 18 2	0 <1 15 <1 7 1386 18 27877 history2 60 10
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	0 9 1 103 155 1409 170 23193 current 9 <1 0	0 9 3 95 134 1383 151 26560 history1 18 2 2 2	0 <1 15 <1 7 1386 18 27877 history2 60 10 <1
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	>75 >20 limit/base	0 9 1 103 155 1409 170 23193 current 9 <1 0 current	0 9 3 95 134 1383 151 26560 history1 18 2 2 2 history1	0 <1 15 <1 7 1386 18 27877 history2 60 10 <1 +istory2
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	0 9 1 103 155 1409 170 23193 current 9 <1 0 current MODER	0 9 3 95 134 1383 151 26560 history1 18 2 2 2 history1 NONE	0 <1 15 <1 7 1386 18 27877 history2 60 10 <1 +istory2 MODER
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 Yisual	>75 >20 limit/base NONE NONE	0 9 1 103 155 1409 170 23193 current 9 <1 0 current 0 current NODER NONE	0 9 3 95 134 1383 151 26560 history1 18 2 2 2 history1 NONE NONE	0 <1 15 <1 7 1386 18 27877 history2 60 10 <1 4 history2 MODER 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 ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m Yisual	>75 >20 limit/base NONE NONE NONE	0 9 1 103 155 1409 170 23193 current 9 <1 0 current 0 current MODER NONE NONE	0 9 3 95 134 1383 151 26560 history1 18 2 2 2 history1 NONE NONE NONE NONE	0 <1 15 <1 7 1386 18 27877 history2 60 10 <1 4 10 <1 history2 MODER 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 TS ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m Yisual *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE NONE	0 9 1 103 155 1409 170 23193 current 9 <1 0 current MODER NONE NONE NONE NONE NONE	0 9 3 95 134 1383 151 26560 history1 18 2 2 history1 NONE NONE NONE NONE NONE NONE	0 <1 15 <1 7 1386 18 27877 history2 60 10 <1 kistory2 60 10 <1 VODER NONE NONE NONE NONE LIGHT
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 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	0 9 1 103 155 1409 170 23193 current 9 <1 0 current MODER NONE NONE NONE NONE NONE NONE	0 9 3 95 134 1383 151 26560 history1 18 2 2 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	0 <1 15 <1 7 1386 18 27877 history2 60 10 <1 kistory2 60 10 <1 kistory2 MODER NONE NONE NONE LIGHT 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 TS ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE NON	0 9 1 103 155 1409 170 23193 current 9 <1 0 current MODER NONE NONE NONE NONE NONE NONE NONE NO	0 9 3 95 134 1383 151 26560 history1 18 2 2 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	0 <1 15 <1 7 1386 18 27877 history2 60 10 <1 4 0 0 4 10 <1 history2 MODER NONE NONE LIGHT NONE LIGHT 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 Odor	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	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 9 1 103 155 1409 170 23193 current 9 <1 0 current MODER NONE NONE NONE NONE NONE NONE NONE NO	0 9 3 95 134 1383 151 26560 history1 18 2 2 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	0 <1 15 <1 7 1386 18 27877 history2 60 10 <1 kistory2 60 10 <1 kistory2 MODER NONE NONE NONE LIGHT NONE LIGHT NONE NORML NORML
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 scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE NON	0 9 1 103 155 1409 170 23193 current 9 <1 0 current MODER NONE NONE NONE NONE NONE NONE NONE NO	0 9 3 95 134 1383 151 26560 history1 18 2 2 2 history1 18 2 2 2 NONE NONE NONE NONE NONE NONE NON	0 <1 15 <1 7 1386 18 27877 history2 60 10 <1 60 10 <1 bistory2 MODER NONE NONE NONE LIGHT NONE LIGHT NONE NONE



OIL ANALYSIS REPORT



	FLUID PRO	PERTIES	method				history2				
	Visc @ 40°C	cSt	ASTM D445	110	85.3	91.0	92.1				
	SAMPLE IN	IAGES	method	limit/base	current	history1	history				
23 +	Color				no image	no image	no image				
E21/21/2010	Bottom				no image	no image	no image				
	GRAPHS										
	Ferrous Alloys	Jun21/21	EZIERM	EZ(Fore)							
	Feb.6/20 May26/21	Jun21/21 Mar23/23	Mar31/23	Nov9/23							
	Viscosity @ 40		. 6								
	Abnormal										
	120										
	G 110 - Base 310 - Base 3100 - Base 30 - Comparison - Com										
	80										
	Henperson Portugation Portugat	Jun21/21	Mar31/23	Nov9/23							
Laboratory Sample No. Lab Number Unique Number Test Package discuss this sample report,	: 10903754 : FLEET	Rece Teste Diagi	ived : 29 ed : 01 nosed : 04	9 Feb 2024 Mar 2024 Mar 2024 - Doi							

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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