

OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id DT744 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 fluid.

Fluid Condition

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

Feb 2021 Jan 2023 Jan 2024							
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0089137	PCA0089219	PCA0042784	
Sample Date		Client Info		08 Jan 2024	30 Jan 2023	16 Feb 2021	
Machine Age	mls	Client Info		117199	117199	25826	
Oil Age	mls	Client Info		156466	16343	0	
Oil Changed		Client Info		Changed	Not Changd	N/A	
Sample Status				NORMAL	ABNORMAL	ABNORMAL	
CONTAMINATIO	DN	method	limit/base	current	history1	history2	
Water		WC Method		NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>1200	318	283	171	
- '	ppm		>8	2	2	1	
	ppm	ASTM D5185m	>20	17	13	5	
	ppm		>4	1	1	0	
	ppm	ASTM D5185m	7	0	0	4	
'		ASTM D5185m	× 30	26	21	5	
	ppm		>25		0	0	
	ppm	ASTM D5185m		0			
	ppm		>50	<1	1	<1	
	ppm	ASTM D5185m	>5	0	0	0	
	ppm	ASTM D5185m	>5			0	
	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		177	212	217	
Barium	ppm	ASTM D5185m		2	<1	0	
Molybdenum	ppm	ASTM D5185m		1	2	0	
Manganese	ppm	ASTM D5185m		4	4	2	
		AO IIVI DO TOOIII		4	4	_	
Magnesium	ppm	ASTM D5185m		12	12	1	
-				-		_	
Calcium	ppm ppm	ASTM D5185m		12	12	1	
Calcium phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		12 35 1419	12 33 1335	1 13	
Calcium Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m		12 35	12	1 13 1386	
Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	12 35 1419 21	12 33 1335 28	1 13 1386 4	
Calcium Phosphorus Zinc Sulfur CONTAMINANT	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >230	12 35 1419 21 19403	12 33 1335 28 21893	1 13 1386 4 21874	
Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		12 35 1419 21 19403	12 33 1335 28 21893 history1	1 13 1386 4 21874 history2	
Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium	opm opm opm opm opm opm opm opm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	>230	12 35 1419 21 19403 current	12 33 1335 28 21893 history1	1 13 1386 4 21874 history2	
Calcium Phosphorus Calcium Phosphorus Calcium Calcium	pppm pppm pppm pppm pppm pppm pppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>230	12 35 1419 21 19403 current 147	12 33 1335 28 21893 history1 138	1 13 1386 4 21874 history2 123 2	
Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL	pppm pppm pppm pppm pppm pppm pppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>230 >20	12 35 1419 21 19403 current 147 4	12 33 1335 28 21893 history1 138 4	1 13 1386 4 21874 history2 123 2 <1	
Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal	ppm	ASTM D5185m	>230 >20 limit/base	12 35 1419 21 19403 current 147 4	12 33 1335 28 21893 history1 138 4 2	1 13 1386 4 21874 history2 123 2 <1	
Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm	ASTM D5185m *Visual	>230 >20 limit/base NONE	12 35 1419 21 19403 current 147 4 4 current NONE	12 33 1335 28 21893 history1 138 4 2 history1	1 13 1386 4 21874 history2 123 2 <1 history2 NONE	
Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m Method *Visual *Visual *Visual	>230 >20 limit/base NONE NONE NONE	12 35 1419 21 19403 current 147 4 4 current NONE NONE	12 33 1335 28 21893 history1 138 4 2 history1	1 13 1386 4 21874 history2 123 2 <1 history2 NONE	
Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m **Visual **Visual **Visual **Visual	>230 >20 limit/base NONE NONE NONE NONE	12 35 1419 21 19403 current 147 4 4 current NONE NONE NONE	12 33 1335 28 21893 history1 138 4 2 history1 A HEAVY NONE NONE NONE	1 13 1386 4 21874 history2 123 2 <1 history2 NONE NONE NONE NONE NONE	
Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>230 >20 limit/base NONE NONE NONE NONE NONE NONE	12 35 1419 21 19403 current 147 4 4 current NONE NONE NONE NONE	12 33 1335 28 21893 history1 138 4 2 history1 A HEAVY NONE NONE NONE VLITE	1 13 1386 4 21874 history2 123 2 <1 history2 NONE NONE NONE NONE NONE MODER	
Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>230 s20 limit/base NONE NONE NONE NONE NONE NONE NONE NONE	12 35 1419 21 19403 current 147 4 4 current NONE NONE NONE NONE NONE	12 33 1335 28 21893 history1 138 4 2 history1 A HEAVY NONE NONE NONE VLITE NONE	1 13 1386 4 21874 history2 123 2 <1 history2 NONE NONE NONE NONE NONE NONE NONE NON	
Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>230 >20 limit/base NONE NONE NONE NONE NONE NONE	12 35 1419 21 19403 current 147 4 4 current NONE NONE NONE NONE	12 33 1335 28 21893 history1 138 4 2 history1 A HEAVY NONE NONE NONE VLITE	1 13 1386 4 21874 history2 123 2 <1 history2 NONE NONE NONE NONE NONE NONE MODER	

Emulsified Water

scalar *Visual

scalar *Visual

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NEG

NEG

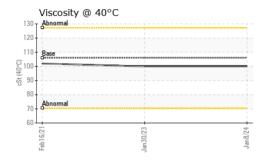
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Selomitted By: Matt Quinlan

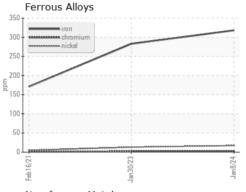


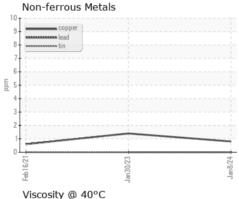
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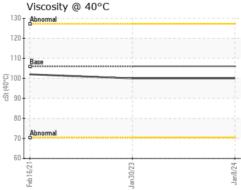


FLUID PROP	PERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	106	100	100	102
SAMPLE IMA	AGES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS











Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: PCA0089137 Lab Number : 06105514 Unique Number : 10903744

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Feb 2024 **Tested**

: 02 Mar 2024 Diagnosed : 04 Mar 2024 - Don Baldridge

NW WHITE & CO - GREER DIVISION

1060 ROGERS BRIDGE RD DUNCAN, SC US 29334

Contact: Matt Quinlan mquinlan@nwwhite.com T: (864)905-8506

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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