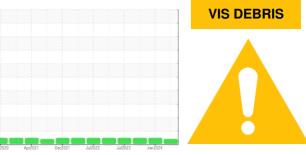


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

Front Differential

CHEVRON DELO SYNTHETIC GEAR 75W90 (4 hrs)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

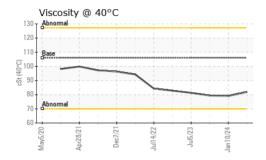
Fluid Condition

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

Comparison Client Info PCA010233 PCA0114719 PCA010748 Cample Date Client Info 11 Apr 2024 10 Jan 2024 11 Oct 2023 12 Oct 2023 12 Oct 2023 12 Oct 2023 13 Oct 2023 13 Oct 2023 12 Oct 2023 13 Oc) (4 hrs)		May2020	Apr2021 Dec2021	Jul2022 Jul2023 Ja	n2024	
Client Info	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Client Info	Sample Number		Client Info		PCA0102239	PCA0114719	PCA0107493
Machine Age mls			Client Info		11 Apr 2024	10 Jan 2024	11 Oct 2023
Dil Age		mls	Client Info		•	316470	290899
Contamped Client Info Not Changed ABNORMAL Normal Norm		mls	Client Info		75000	75000	75000
ABNORMAL NORMAL NORMAL NORMAL			Client Info			Changed	Not Changd
Water WC Method >.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 VEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >500 75 81 63 Chromium ppm ASTM D5185m >10 <1 <1 <1 Chromium ppm ASTM D5185m >10 0 <1 <1 Glidelium ppm ASTM D5185m >25 0 2 <1 0 Auminum ppm ASTM D5185m >25 0 <1 0 0 Lead ppm ASTM D5185m >100 2 <1 0 0 Copper ppm ASTM D5185m >100 2 <1 0 0 Copper ppm ASTM D5185m 0 <1 <1 <1 <1 <1 <1 <1	Sample Status						
WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >500 75 81 63 Chromium ppm ASTM D5185m >10 <1	CONTAMINATIO	ON	method	limit/base	current	history1	history2
Description	Water		WC Method	>.2	NEG	NEG	NEG
Description	WEAR METALS		method	limit/base	current	history1	history2
Nickel	ron	ppm	ASTM D5185m	>500	75	81	63
Description	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Silver	Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Silver			ASTM D5185m		0	<1	0
Astmonum			ASTM D5185m		0	0	
Lead ppm ASTM D5185m >25 0 <1 0 Copper ppm ASTM D5185m >100 2 <1				>25			<1
Description							
ASTM D5185m ASTM D5185m							
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 269 278 217 Barium ppm ASTM D5185m 1 4 <1 Molybdenum ppm ASTM D5185m 19 16 13 Manganese ppm ASTM D5185m 4 2 2 Manganesium ppm ASTM D5185m 253 225 220 Phosphorus ppm ASTM D5185m 1362 1306 1411 Zinc ppm ASTM D5185m 157 188 198 Zinc ppm ASTM D5185m 23300 21021 21571 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 8 <							
Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 269 278 217 Barium ppm ASTM D5185m 1 4 <1 Molybdenum ppm ASTM D5185m 19 16 13 Magnaese ppm ASTM D5185m 4 2 2 Magnaese ppm ASTM D5185m 83 119 124 Calcium ppm ASTM D5185m 253 225 220 Phosphorus ppm ASTM D5185m 1362 1306 1411 Zinc ppm ASTM D5185m 23300 21021 21571 CONTAMINANTS method limit/base current history1 history2 Gilicon ppm ASTM D5185m >75 8 8 10 Potassium ppm ASTM D5185m 20				7 10			
ADDITIVES							
Soron ppm ASTM D5185m 269 278 217	'	ррпп		111-/1			
Sarium				ilmit/base			
Molybdenum ppm ASTM D5185m 19 16 13 Manganese ppm ASTM D5185m 4 2 2 Magnesium ppm ASTM D5185m 83 119 124 Calcium ppm ASTM D5185m 253 225 220 Phosphorus ppm ASTM D5185m 1362 1306 1411 Zinc ppm ASTM D5185m 157 188 198 Sulfur ppm ASTM D5185m 23300 21021 21571 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 8 8 10 Godium ppm ASTM D5185m >20 0 1 <1 Potassium ppm ASTM D5185m >20 0 1 <1 VISUAL method limit/base current history1 history2 White Metal scalar							
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Magnesium ppm ASTM D5185m 83 119 124 Calcium ppm ASTM D5185m 253 225 220 Phosphorus ppm ASTM D5185m 1362 1306 1411 Zinc ppm ASTM D5185m 157 188 198 Sulfur ppm ASTM D5185m 23300 21021 21571 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 8 8 10 Sodium ppm ASTM D5185m 2 0 <1	Molybdenum	ppm					
Calcium ppm ASTM D5185m 253 225 220 Phosphorus ppm ASTM D5185m 1362 1306 1411 Zinc ppm ASTM D5185m 157 188 198 Sulfur ppm ASTM D5185m 23300 21021 21571 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 8 8 10 Potassium ppm ASTM D5185m >20 0 1 <1	•	ppm	ASTM D5185m		-	2	_
Phosphorus ppm ASTM D5185m 1362 1306 1411 Zinc ppm ASTM D5185m 157 188 198 Sulfur ppm ASTM D5185m 23300 21021 21571 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 8 8 10 Godium ppm ASTM D5185m 2 0 <1 <1 Potassium ppm ASTM D5185m ≥20 0 1 <1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE Poebris scalar *Visual NONE <th< td=""><td>Magnesium</td><td>ppm</td><td></td><td></td><td></td><td></td><td></td></th<>	Magnesium	ppm					
27 27 27 27 27 27 27 27	Calcium	ppm	ASTM D5185m		253	225	220
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 8 8 10 Sodium ppm ASTM D5185m 2 0 <1	Phosphorus	ppm	ASTM D5185m		1362	1306	1411
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 8 8 10 Sodium ppm ASTM D5185m 2 0 0 <1 Potassium ppm ASTM D5185m >20 0 1 <1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Dodor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Zinc	ppm	ASTM D5185m		157	188	198
Solition	Sulfur	ppm	ASTM D5185m		23300	21021	21571
Sodium ppm ASTM D5185m 2 0 <1 Potassium ppm ASTM D5185m >20 0 1 <1	CONTAMINANT	S	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 1 <1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Bilt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Boand/Dirt scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML NORM	Silicon	ppm	ASTM D5185m	>75	8	8	10
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Yellow Metal scalar *Visual NONE N	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE MODER NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Ddor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG Free Water scalar *Visual NEG NEG NEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE MODER NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Ddor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debris scalar *Visual NONE MODER NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Ddor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance scalar *Visual NORML NORM	Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Appearance scalar *Visual NORML NORM	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG							
Emulsified Water scalar *Visual >.2 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG							
Free Water scalar *Visual NEG NEG NEG							
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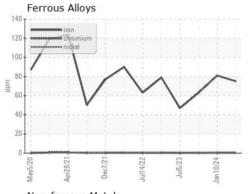


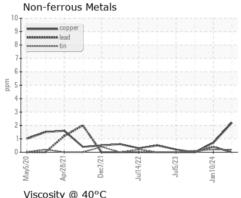
OIL ANALYSIS REPORT

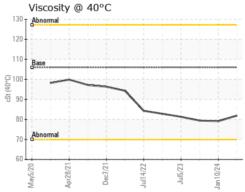


FLUID PROPERTIES	S method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D445	106	81.9	79.1	79.4
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image
ODABUO					

GRAPHS









Certificate 12367

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : PCA0102239 Lab Number : 06156315 Unique Number : 10991738

Test Package : FLEET

Received : 22 Apr 2024 **Tested** Diagnosed

: 23 Apr 2024 : 24 Apr 2024 - Sean Felton

100 INDEPENDENCE BLVD COLUMBIA, SC US 29210

Contact: George Edwards gedwards@nwwhite.com

NW WHITE & CO - SPECIAL SERVICE DIVISION

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)

Report Id: NWWSSC [WUSCAR] 06156315 (Generated: 04/24/2024 16:43:20) Rev: 1

Submitted By: Paul Riddick

T: F: