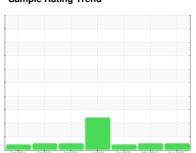


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **T288**

Component Rear Differential

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

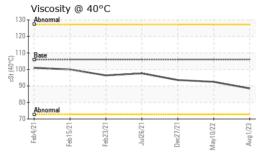
Fluid Condition

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

Cample Number Client Info PCA0100085 PCA0071346 PCA006307 Cample Date Client Info O1 Aug 2023 10 May 2022 27 Dec 202 27 Dec 2) (QTS)		Feb2021	Feb 2021 Feb 2021	Jul2021 Dec2021 May2022	Aug2023	
Client Info	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age mls Client Info	Sample Number		Client Info		PCA0100085	PCA0071346	PCA006307
Dil Age	Sample Date		Client Info		01 Aug 2023	10 May 2022	27 Dec 2021
Dil Changed Client Info Not Changed N/A N/A N/A NORMAL ABNORMA NORMAL	Machine Age	mls	Client Info		_		74430
Dil Changed Client Info Not Changed N/A N/A NORMAL ABNORMAL NORMAL ABNORMAL ABNORMAL NORMAL ABNORMAL ABNORMAL NORMAL ABNORMAL ADNORMAL ADNORMA	Oil Age	mls	Client Info		6930	0	74430
NORMAL NORMAL ABNORMA	Oil Changed		Client Info		Not Changd	N/A	N/A
Description	Sample Status				NORMAL	NORMAL	ABNORMAL
Description	WEAR METAL	.S	method	limit/base	current	history1	history2
Sickel	ron	ppm	ASTM D5185m	>500	220	184	163
ASTM D5185m California Control	Chromium	ppm	ASTM D5185m	>10	2	1	1
ASTM D5185m D	Nickel	ppm	ASTM D5185m	>10	<1	0	0
ASTM D5185m S25	Γitanium	ppm	ASTM D5185m		<1	<1	<1
Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >100 0 1 <1	Silver	ppm	ASTM D5185m		0	0	0
Description	Aluminum	ppm	ASTM D5185m	>25	4	6	5
Antimony	_ead	ppm	ASTM D5185m	>25	0	0	0
Antimony	Copper	ppm	ASTM D5185m	>100	0	1	<1
Antimony	 Γin		ASTM D5185m	>10	0	0	<1
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 236 220 249 Barium ppm ASTM D5185m 0 0 0 2 Molybdenum ppm ASTM D5185m 8 7 7 7 Manganese ppm ASTM D5185m 108 84 83 Calcium ppm ASTM D5185m 196 125 121 Phosphorus ppm ASTM D5185m 1370 1315 1466 Zinc ppm ASTM D5185m 26116 18532 21746 Contamina ppm ASTM D5185m 26116 18532 21746 CONTAMINANTS method limit/base current history1 history2 Giliton ppm ASTM D5185m	Antimony		ASTM D5185m	>5			0
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 236 220 249 Barium ppm ASTM D5185m 0 0 2 Molybdenum ppm ASTM D5185m 8 7 7 Manganese ppm ASTM D5185m 5 6 5 Magnesium ppm ASTM D5185m 108 84 83 Calcium ppm ASTM D5185m 196 125 121 Phosphorus ppm ASTM D5185m 163 127 123 Sulfur ppm ASTM D5185m 26116 18532 21746 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m 75 39 53 59 Sodium ppm ASTM D5185m 1	Vanadium				0	0	0
Boron ppm ASTM D5185m 236 220 249							
Description	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 8 7 7 Manganese ppm ASTM D5185m 5 6 5 Magnesium ppm ASTM D5185m 108 84 83 Calcium ppm ASTM D5185m 196 125 121 Phosphorus ppm ASTM D5185m 1370 1315 1466 Zinc ppm ASTM D5185m 163 127 123 Sulfur ppm ASTM D5185m 26116 18532 21746 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >75 39 53 59 Sodium ppm ASTM D5185m >75 39 53 59 Sodium ppm ASTM D5185m >20 0 2 <1 Potassium ppm ASTM D5185m >20 0 2 <1 Potassium ppm	Boron	ppm	ASTM D5185m		236	220	249
Manganese ppm ASTM D5185m 5 6 5 Magnesium ppm ASTM D5185m 108 84 83 Calcium ppm ASTM D5185m 196 125 121 Phosphorus ppm ASTM D5185m 1370 1315 1466 Zinc ppm ASTM D5185m 163 127 123 Sulfur ppm ASTM D5185m 26116 18532 21746 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 39 53 59 Sodium ppm ASTM D5185m >20 0 2 <1	Barium	ppm	ASTM D5185m		0	0	2
Magnesium ppm ASTM D5185m 108 84 83 Calcium ppm ASTM D5185m 196 125 121 Phosphorus ppm ASTM D5185m 1370 1315 1466 Zinc ppm ASTM D5185m 163 127 123 Sulfur ppm ASTM D5185m 26116 18532 21746 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 39 53 59 Godium ppm ASTM D5185m >20 0 2 <1	Molybdenum	ppm	ASTM D5185m		8	7	7
Calcium ppm ASTM D5185m 196 125 121 Phosphorus ppm ASTM D5185m 1370 1315 1466 Zinc ppm ASTM D5185m 163 127 123 Bulfur ppm ASTM D5185m 26116 18532 21746 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 39 53 59 Sodium ppm ASTM D5185m >75 39 53 59 Sodium ppm ASTM D5185m >20 0 2 <1	Manganese	ppm	ASTM D5185m		5	6	5
Phosphorus ppm ASTM D5185m 1370 1315 1466 Zinc ppm ASTM D5185m 163 127 123 Sulfur ppm ASTM D5185m 26116 18532 21746 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 39 53 59 Godium ppm ASTM D5185m >75 39 53 59 Godium ppm ASTM D5185m >20 0 2 <1 Potassium ppm ASTM D5185m >20 0 2 <1 Potassium ppm ASTM D5185m >20 0 2 <1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NO	Magnesium	ppm	ASTM D5185m		108	84	83
27 123 124 125 125 126 127 123 125	Calcium	ppm	ASTM D5185m		196	125	121
CONTAMINANTS method limit/base current history1 history2 Gillicon ppm ASTM D5185m >75 39 53 59 Godium ppm ASTM D5185m 1 1 1 1 Potassium ppm ASTM D5185m >20 0 2 <1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE Solt scalar *Visual NONE NONE NONE NONE NONE NONE Solt scalar *Visual NONE NONE NONE NONE NONE NONE Solt scalar *Visual NONE NONE NONE NONE NONE NONE Solt scalar *Visual NONE NONE NONE NONE NONE Sold Sold NONE NONE NONE NONE NONE Sold NORML NORML NORML NORML NORML NORML Sold NORML NORML NORML NORML NORML NORML Sold NORML NORML NORML NORML NORML NORML Sold NORML NORML NORML NORML NORML	Phosphorus	ppm	ASTM D5185m		1370	1315	1466
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 39 53 59 Sodium ppm ASTM D5185m 1 1 1 1 Potassium ppm ASTM D5185m >20 0 2 <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 NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris 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	Zinc	ppm	ASTM D5185m		163	127	123
Solition	Sulfur	ppm	ASTM D5185m		26116	18532	21746
Sodium ppm ASTM D5185m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 2 <1 VISUAL method limit/base current history1 history3 White Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NORML NORML NORML NORML Debris Scalar *Visual NORML NORML NORML NORML NORML Debris Scalar *Visual NORML NORML NORML NORML NORML Debris Scalar *Visual NORML NOR	Silicon	ppm	ASTM D5185m	>75	39	53	59
VISUAL method limit/base current history1 history1 White Metal scalar *Visual 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 Ddor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG	Sodium	ppm	ASTM D5185m		1	1	1
White 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 Sand/Dirt scalar *Visual NONE NONE NONE NONE Scalar *Visual NONE NONE NONE NONE Scalar *Visual NONE NONE NONE NONE Scalar *Visual NORML NORML NORML NORML Dodor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG	Potassium	ppm	ASTM D5185m	>20	0	2	<1
Yellow Metal scalar *Visual NONE NORML NOR	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 NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Ddor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG	White Metal	scalar	*Visual	NONE			NONE
Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE MODER 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	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debris scalar *Visual NONE NONE NONE MODER Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt scalar *Visual NONE 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	Silt	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	Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >.2 NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water scalar *Visual >.2 NEG NEG NEG	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar				NEG	NEG
	ree Water	scalar	*Visual		NEG	NEG	NEG

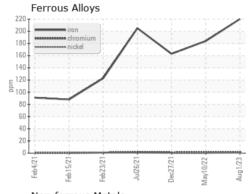


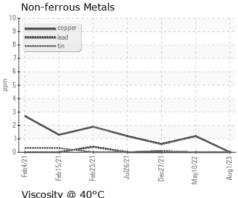
OIL ANALYSIS REPORT

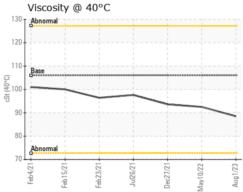


FLUID PROPI	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	106	88.5	92.5	93.6
SAMPLE IMA	GES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS









Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number**

: 05918925 : 10590839 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0100085 Received : 08 Aug 2023

Diagnosed : 09 Aug 2023 Diagnostician : Sean Felton

NW WHITE & CO - COLUMBIA DIVISION

100 INDEPENDENCE BLVD COLUMBIA, SC US 29210

Contact: GEORGE EDWARDS

gedwards@nwwhite.com

T:

* - 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)

F: