

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id DT780 Component

Rear Axle

CHEVRON RPM SYNTHETIC GEAR 75W90 (--- GAL)

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.

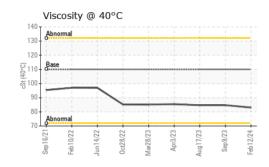
Fluid Condition

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

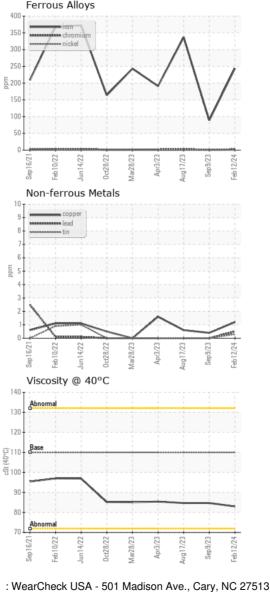
SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0104213	PCA0104133	PCA0102270
Sample Date		Client Info		12 Feb 2024	09 Sep 2023	17 Aug 2023
Machine Age	mls	Client Info		177889	154385	151212
Oil Age	mls	Client Info		0	154385	151212
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	244	89	337
Chromium	ppm	ASTM D5185m	>10	2	<1	3
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	10	3	1 5
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>50	1	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		188	214	241
Barium	ppm	ASTM D5185m		<1	0	0
	ppm ppm	ASTM D5185m ASTM D5185m		<1 14	0 12	0 19
Molybdenum						
Molybdenum Manganese	ppm	ASTM D5185m		14	12	19
Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m		14 3	12 1	19 4
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		14 3 112	12 1 114	19 4 100
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		14 3 112 234	12 1 114 247	19 4 100 217
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		14 3 112 234 1180	12 1 114 247 1250	19 4 100 217 1318
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	14 3 112 234 1180 207	12 1 114 247 1250 227	19 4 100 217 1318 165
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	limit/base	14 3 112 234 1180 207 19217	12 1 114 247 1250 227 23354	19 4 100 217 1318 165 24942
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		14 3 112 234 1180 207 19217 current	12 1 114 247 1250 227 23354 history1	19 4 100 217 1318 165 24942 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75	14 3 112 234 1180 207 19217 current 67	12 1 114 247 1250 227 23354 history1 31	19 4 100 217 1318 165 24942 history2 ▲ 92
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75	14 3 112 234 1180 207 19217 current 67 3	12 1 114 247 1250 227 23354 history1 31 3	19 4 100 217 1318 165 24942 history2 ▲ 92 5
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20	14 3 112 234 1180 207 19217 current 67 3 4	12 1 114 247 1250 227 23354 history1 31 3 2	19 4 100 217 1318 165 24942 history2 ▲ 92 5 3
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 limit/base	14 3 112 234 1180 207 19217 current 67 3 4 current	12 1 114 247 1250 227 23354 history1 31 3 2 history1	19 4 100 217 1318 165 24942 history2 ▲ 92 5 3 3
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m XFM D5185m	>75 >20 limit/base NONE	14 3 112 234 1180 207 19217 current 67 3 4 current NONE	12 1 114 247 1250 227 23354 history1 31 3 2 history1 NONE	19 4 100 217 1318 165 24942 ▲ 92 5 3 92 5 3 <i>history2</i> <i>history2</i>
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m	>75 >20 limit/base NONE NONE	14 3 112 234 1180 207 19217 current 67 3 4 current NONE NONE NONE	12 1 114 247 1250 227 23354 history1 31 3 2 2 history1 NONE NONE	19 4 100 217 1318 165 24942 history2 ▲ 92 5 3 3 history2 NONE NONE
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m	>75 >20 limit/base NONE NONE NONE	14 3 112 234 1180 207 19217 <u>current</u> 67 3 4 <u>current</u> NONE NONE NONE	12 1 114 247 1250 227 23354 history1 31 3 2 history1 NONE NONE NONE NONE	19 4 100 217 1318 165 24942 history2
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 r scalar scalar scalar scalar	ASTM D5185m ASTM D5185m	>75 >20 limit/base NONE NONE NONE NONE	14 3 112 234 1180 207 19217 <i>current</i> 67 3 4 <i>current</i> NONE NONE NONE NONE	12 1 114 247 1250 227 23354 history1 31 3 2 history1 NONE NONE NONE NONE NONE	19 4 100 217 1318 165 24942 history2 ● 92 5 3 92 5 3 history2 NONE NONE NONE NONE NONE NONE
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T 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	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE NONE	14 3 112 234 1180 207 19217 <i>current</i> 67 3 4 <i>current</i> NONE NONE NONE NONE NONE NONE	12 1 114 247 1250 227 23354 history1 31 3 2 history1 NONE NONE NONE NONE NONE NONE NONE	19 4 100 217 1318 165 24942 history2 ● 92 5 3 92 5 3 history2 NONE NONE NONE NONE NONE NONE
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE NONE	14 3 112 234 1180 207 19217 current 67 3 4 current NONE NONE NONE NONE NONE NONE NONE NON	12 1 114 247 1250 227 23354 history1 31 3 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	19 4 100 217 1318 165 24942
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 ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE	14 3 112 234 1180 207 19217 <i>current</i> 67 3 4 <i>current</i> 67 3 4 <i>current</i> NONE NONE NONE NONE NONE NONE NONE NON	12 1 114 247 1250 227 23354 history1 31 3 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	19 4 100 217 1318 165 24942
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 ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 20 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	14 3 112 234 1180 207 19217 current 67 3 4 current NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	12 1 114 247 1250 227 23354 history1 31 3 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	19 4 100 217 1318 165 24942



OIL ANALYSIS REPORT



FLUID PROPE	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	110	83.0	84.7	84.7
SAMPLE IMAG	GES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS					0	0
Formaula Allavia						



NW WHITE & CO - COLUMBIA DIVISION 100 INDEPENDENCE BLVD COLUMBIA, SC : 16 Feb 2024 - Wes Davis US 29210 Contact: GEORGE EDWARDS gedwards@nwwhite.com Т:



Test Package : FLEET Certificate L2367 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)

Received

Diagnosed

Tested

: 15 Feb 2024

: 16 Feb 2024

Laboratory Sample No.

Lab Number : 06091244

Unique Number : 10884097

: PCA0104213

F: