

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

3789C AUTOCAR ACX

Natural Gas Engine Fluid CHEVRON DELO 400 NG (48 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

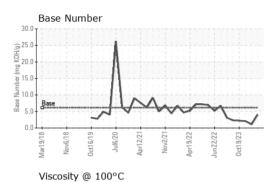
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

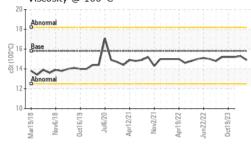


SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103162	GFL0094680	GFL0094707
Sample Date		Client Info		23 Jan 2024	24 Oct 2023	20 Oct 2023
Machine Age	hrs	Client Info		36114	26803	26803
Oil Age	hrs	Client Info		9311	0	3498
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	30	6 6	6 0
Chromium	ppm	ASTM D5185m	>4	3	<u> </u>	<u> </u>
Nickel	ppm	ASTM D5185m	>2	<1	2	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	<u> </u>	1 0
Lead	ppm	ASTM D5185m	>30	1	9	8
Copper	ppm	ASTM D5185m	>35	1	2	2
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	limit/base	6	history1 5	0
	ppm ppm		limit/base		· · · · · · · · · · · · · · · · · · ·	0 0
Boron		ASTM D5185m	limit/base	6	5 3 67	0 0 66
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	6 0	5 3	0 0 66 2
Boron Barium Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		6 0 58	5 3 67 2 655	0 0 66 2 683
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		6 0 58 <1	5 3 67 2	0 0 66 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	11mit/base	6 0 58 <1 543 1514 663	5 3 67 2 655 1740 928	0 0 66 2 683 1840 920
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	800	6 0 58 <1 543 1514 663 975	5 3 67 2 655 1740	0 0 66 2 683 1840
Boron 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	800	6 0 58 <1 543 1514 663	5 3 67 2 655 1740 928	0 0 66 2 683 1840 920
Boron 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	800	6 0 58 <1 543 1514 663 975	5 3 67 2 655 1740 928 1104	0 0 66 2 683 1840 920 1150
Boron 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	800 880	6 0 58 <1 543 1514 663 975 2317	5 3 67 2 655 1740 928 1104 2887	0 0 66 2 683 1840 920 1150 2604
Boron 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	800 880 limit/base	6 0 58 <1 543 1514 663 975 2317 current	5 3 67 2 655 1740 928 1104 2887 history1	0 0 66 2 683 1840 920 1150 2604 history2
Boron 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	800 880 limit/base >+100	6 0 58 <1 543 1514 663 975 2317 current 20	5 3 67 2 655 1740 928 1104 2887 history1 23	0 0 66 2 683 1840 920 1150 2604 history2 22
Boron 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 ASTM D5185m ASTM D5185m ASTM D5185m	800 880 limit/base >+100	6 0 58 <1 543 1514 663 975 2317 current 20 7	5 3 67 2 655 1740 928 1104 2887 history1 23 20	0 0 66 2 683 1840 920 1150 2604 history2 22 19
Boron 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	800 880 880 limit/base >+100 >20	6 0 58 <1 543 1514 663 975 2317 current 20 7 4	5 3 67 2 655 1740 928 1104 2887 history1 23 20 4	0 0 66 2 683 1840 920 1150 2604 history2 22 19 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	800 880 limit/base >+100 >20 limit/base	6 0 58 <1 543 1514 663 975 2317 current 20 7 4 x	5 3 67 2 655 1740 928 1104 2887 history1 23 20 4 history1	0 0 66 2 683 1840 920 1150 2604 history2 22 19 3 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	800 880 limit/base >+100 >20 limit/base >20	6 0 58 <1 543 1514 663 975 2317 current 20 7 4 current 0	5 3 67 2 655 1740 928 1104 2887 history1 23 20 4 history1 0	0 0 66 2 683 1840 920 1150 2604 history2 22 19 3 history2 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	800 880 limit/base >+100 >20 limit/base >20	6 0 58 <1 543 1514 663 975 2317 current 20 7 4 20 7 4 current 0 11.2	5 3 67 2 655 1740 928 1104 2887 history1 23 20 4 history1 0 12.7	0 0 66 2 683 1840 920 1150 2604 history2 22 19 3 history2 0 13.2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	800 880 880 2+100 >+100 >20 limit/base >20 20 20	6 0 58 <1 543 1514 663 975 2317 current 20 7 4 current 0 11.2 22.3	5 3 67 2 655 1740 928 1104 2887 history1 23 20 4 history1 0 12.7 29.6	0 0 66 2 683 1840 920 1150 2604 history2 22 19 3 3 history2 0 13.2 30.9



OIL ANALYSIS REPORT





VISUAL		method				history2
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
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.8	14.9	15.3	15.2
GRAPHS						

Ferrous Alloys

18

cSt (100°C)

14

12

Laboratory

Sample No.

Lab Number

Unique Number

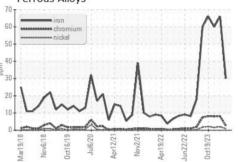
Abno

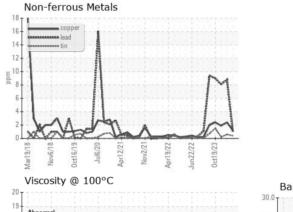
Mar19/18 Vov6/18

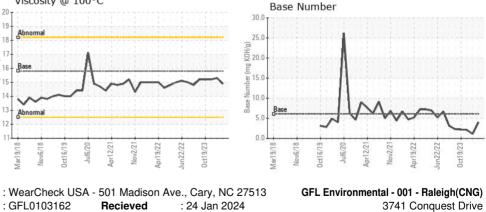
: GFL0103162

: 06069352

: 10846029







3741 Conquest Drive Garner, NC US 27529 Contact: Craig Johnson craig.johnson@gflenv.com T: (919)662-7100 F: (919)662-7130



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)

Jul6/20 0ct16/19

Apr12/21

Vov2/21 Apr19/22

Recieved

Diagnosed

Diagnostician

Jun22/22

: 24 Jan 2024

: Wes Davis