

OIL ANALYSIS REPORT

NORMAL

Machine Id

10734C AUTOCAR ACX

Natural Gas Engine Fluid PETRO CANADA DURON SHP 15W40 (28 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

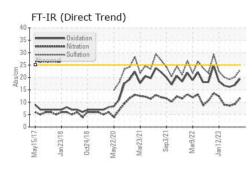
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

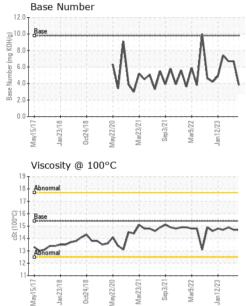
NORMAL							
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SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094762	GFL0094711	GFL0094674
Sample Date		Client Info		02 Apr 2024	07 Nov 2023	25 Oct 2023
Machine Age	mls	Client Info		240910	19381	19283
Oil Age	mls	Client Info		221529	98	3965
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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	12	8	7
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	2	2
Lead	ppm	ASTM D5185m	>30	6	0	<1
Copper	ppm	ASTM D5185m	>35	13	<1	<1
Tin	ppm	ASTM D5185m	>4	1	0	0
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	0	7	14	23
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m	0	7 0	14 0	23 0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	7 0 49	14 0 50	23 0 50
Boron Barium Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0	7 0 49 <1	14 0 50 0	23 0 50 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010	7 0 49 <1 546	14 0 50 0 551	23 0 50 <1 514
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070	7 0 49 <1 546 1569	14 0 50 0 551 1461	23 0 50 <1 514 1507
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150	7 0 49 <1 546 1569 672	14 0 50 0 551 1461 742	23 0 50 <1 514 1507 733
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270	7 0 49 <1 546 1569 672 946	14 0 50 0 551 1461 742 950	23 0 50 <1 514 1507 733 934
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	0 0 60 0 1010 1070 1150 1270 2060	7 0 49 <1 546 1569 672	14 0 50 0 551 1461 742 950 2728	23 0 50 <1 514 1507 733 934 2221
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	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	0 0 60 1010 1070 1150 1270 2060	7 0 49 <1 546 1569 672 946 2653 current	14 0 50 0 551 1461 742 950 2728 history1	23 0 50 <1 514 1507 733 934 2221 history2
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 method	0 0 60 0 1010 1070 1150 1270 2060	7 0 49 <1 546 1569 672 946 2653 current 6	14 0 50 0 551 1461 742 950 2728 history1 4	23 0 50 <1 514 1507 733 934 2221
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 method ASTM D5185m	0 0 60 1010 1070 1150 1270 2060 kimit/base >+100	7 0 49 <1 546 1569 672 946 2653 current	14 0 50 0 551 1461 742 950 2728 history1 4 3	23 0 50 <1 514 1507 733 934 2221 history2
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 ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	0 0 60 1010 1070 1150 1270 2060 kimit/base >+100	7 0 49 <1 546 1569 672 946 2653 current 6	14 0 50 0 551 1461 742 950 2728 history1 4	23 0 50 <1 514 1507 733 934 2221 history2 5
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 method ASTM D5185m	0 0 60 1010 1070 1150 1270 2060 kimit/base >+100	7 0 49 <1 546 1569 672 946 2653 current 6 5 0	14 0 50 0 551 1461 742 950 2728 history1 4 3	23 0 50 <1 514 1507 733 934 2221 history2 5 4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >+100	7 0 49 <1 546 1569 672 946 2653 <i>current</i> 6 5 0 <i>current</i> 0	14 0 50 0 551 1461 742 950 2728 history1 4 3 2 2 history1 0	23 0 50 <1 514 1507 733 934 2221 history2 5 4 4 <1
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	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 >+100 >20 imit/base	7 0 49 <1 546 1569 672 946 2653 <u>current</u> 6 5 0	14 0 50 0 551 1461 742 950 2728 history1 4 3 2 2 history1	23 0 50 <1 514 1507 733 934 2221 history2 5 4 <1 ×1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 >+100 >20 imit/base	7 0 49 <1 546 1569 672 946 2653 <i>current</i> 6 5 0 <i>current</i> 0	14 0 50 0 551 1461 742 950 2728 history1 4 3 2 2 history1 0	23 0 50 <1 514 1507 733 934 2221 history2 5 4 <1 kistory2 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	0 0 0 1010 1070 1150 1270 2060 <i>limit/base</i> >+100 <i>limit/base</i>	7 0 49 <1 546 1569 672 946 2653 <i>current</i> 6 5 0 <i>current</i> 0 11.6 23.0	14 0 50 0 551 1461 742 950 2728 history1 4 3 2 2 history1 0 9.2	23 0 50 <1 514 1507 733 934 2221 history2 5 4 <1 kistory2 0 8.6
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	0 0 0 1010 1070 1150 1270 2060 imit/base >20 imit/base >20 imit/base	7 0 49 <1 546 1569 672 946 2653 <i>current</i> 6 5 0 <i>current</i> 0 11.6 23.0	14 0 50 0 551 1461 742 950 2728 history1 4 3 2 2 history1 0 9.2 20.1	23 0 50 <1 514 1507 733 934 2221 history2 5 4 <1 history2 0 8.6 19.2



OIL ANALYSIS REPORT





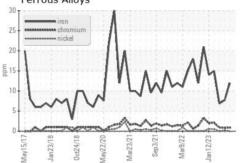
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	15.4	14.7	14.7	14.9
GRAPHS						

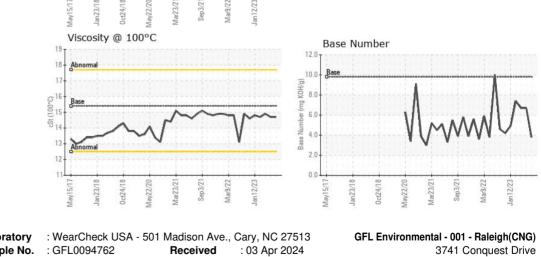
Ferrous Alloys

Non-ferrous Metals

ead

250





Laboratory Sample No. Lab Number : 06137083 Tested : 03 Apr 2024 Garner, NC Unique Number : 10956548 Diagnosed : 05 Apr 2024 - Sean Felton US 27529 Test Package : FLEET Contact: Craig Johnson Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. craig.johnson@gflenv.com T: (919)662-7100 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F: (919)662-7130

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: GFL001 [WUSCAR] 06137083 (Generated: 04/05/2024 09:59:10) Rev: 1

Submitted By: aka Keith - Ronald Gregory

Page 2 of 2