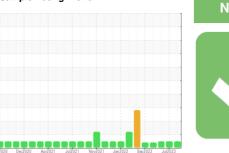


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



CUMMINS 810030

Component

Diesel Engine

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

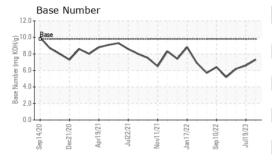
Fluid Condition

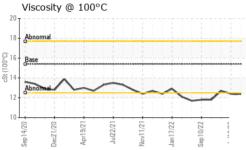
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

# 192020	
SAMPLE INFORMATION method limit/base current history1	history2
Sample Number Client Info GFL0086278 GFL0086235 GFL	_0057647
Sample Date Client Info 17 Aug 2023 19 Jul 2023 18 A	Apr 2023
Machine Age hrs Client Info 0 5332 5333	2
Oil Age hrs Client Info 0 14725 142	11
Oil Changed Client Info N/A N/A N/A	
Sample Status NORMAL NORMAL NORMAL	RMAL
CONTAMINATION method limit/base current history1	history2
Fuel WC Method >3.0 <1.0 <1.0	:1.0
Glycol WC Method NEG NEG N	NEG
WEAR METALS method limit/base current history1	history2
Iron ppm ASTM D5185m >75 14 12 1	6
Chromium ppm ASTM D5185m >5 <1	:1
Nickel ppm ASTM D5185m >4 0 0 0)
Titanium ppm ASTM D5185m >2 <1)
Silver ppm ASTM D5185m >2 <1 0)
Aluminum ppm ASTM D5185m >15 4 3 3	3
Lead ppm ASTM D5185m >25 <1 0)
Copper ppm ASTM D5185m >100 3 2 3	3
Tin ppm ASTM D5185m >4 <1 0)
Vanadium ppm ASTM D5185m <1)
Cadmium ppm ASTM D5185m 0 0	١
Caamam ppm //emperson)
ADDITIVES method limit/base current history1	history2
ADDITIVES method limit/base current history1	
ADDITIVES method limit/base current history1	history2
ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 0 18 13 1 Barium ppm ASTM D5185m 0 0 0 0 1	history2
ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 0 18 13 1 Barium ppm ASTM D5185m 0 0 0 1 Molybdenum ppm ASTM D5185m 60 60 62 6	history2
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ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 0 18 13 1 Barium ppm ASTM D5185m 0 0 0 1 Molybdenum ppm ASTM D5185m 60 60 62 6 Manganese ppm ASTM D5185m 0 <1 <1 < Magnesium ppm ASTM D5185m 1010 778 759 8	history2 4 31
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ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 0 18 13 1 Barium ppm ASTM D5185m 0 0 0 1 Molybdenum ppm ASTM D5185m 60 60 62 6 Manganese ppm ASTM D5185m 0 <1 <1 < Magnesium ppm ASTM D5185m 1010 778 759 8 Calcium ppm ASTM D5185m 1070 1076 1040 1 Phosphorus ppm ASTM D5185m 1150 893 919 9 Zinc ppm ASTM D5185m 1270 1093 1094 1	history2 4 61 61 61 61 61 61 61 61 61 61 61 61 61
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ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 0 18 13 1 Barium ppm ASTM D5185m 0 0 0 1 Molybdenum ppm ASTM D5185m 60 60 62 6 Manganese ppm ASTM D5185m 1010 778 759 8 Calcium ppm ASTM D5185m 1070 1076 1040 1 Phosphorus ppm ASTM D5185m 1150 893 919 9 Zinc ppm ASTM D5185m 1270 1093 1094 1 Sulfur ppm ASTM D5185m 2060 3182 2639 2 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185m >25 4 5 6 Sodium ppm ASTM D5185m >20 9 4 2	history2 4 61 61 61 61 61 61 61 61 61 61 61 61 61
Boron ppm ASTM D5185m 0 18 13 1	history2 4 61 61 617 011 602 135 6875 history2 666
Boron ppm ASTM D5185m 0 18 13 1	history2 4 61 61 61 61 61 60 60 60 60 60 60 60 60 60 60 60 60 60
Boron ppm ASTM D5185m 0 18 13 1	history2 4 61 61 61 61 61 61 60 62 63 66 62 63 63 63 63 63 64 65 65 65 65 65 65 65 65 65 65 65 65 65
Boron ppm ASTM D5185m 0 18 13 1	history2 4 61 61 617 011 602 135 6875 history2 6 6 6 7 6 7 6 6 7 7 6



OIL ANALYSIS REPORT

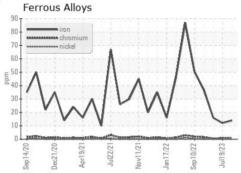


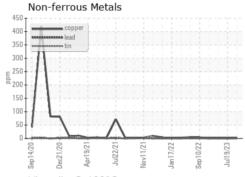


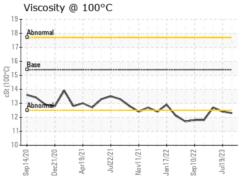
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

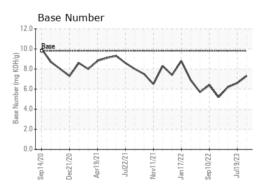
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	12.4	12.7

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0086278 : 05928036 : 10607983

Received

: 18 Aug 2023 Diagnosed : 21 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 009 - Fairburn 6905 Roosevelt Hwy

Fairburn, GA US 30213 Contact: Eric Jones

erjones@gflenv.com T: (678)630-9927

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)