

OIL ANALYSIS REPORT

Sample Rating Trend



CUMMINS Autocar 10761

Component
Diocol Engin

Diesel Engine

PETRO CANADA DURON SHP 15W40 (28 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected 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.

GAL)		lay2017 Ma	2018 Dec2018 Oct2	019 Mar2020 Jan2021 N	Ta/2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		GFL0086188 14 Dec 2023	GFL0057611 23 May 2023	GFL0057603 28 Mar 2023
Machine Age	hrs	Client Info		33762	5890	5890
Oil Age	hrs	Client Info		33762	16218	15914
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				MARGINAL	ABNORMAL	MARGINAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>75	22	12	21
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	<1	1
_ead	ppm	ASTM D5185m	>25	0	2	<1
Copper	ppm	ASTM D5185m	>100	<1	<1	<1
Γin	ppm	ASTM D5185m	>4	0	<1	0
/anadium	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	17	17	17
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	67	63
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	789	805	816
Calcium	ppm	ASTM D5185m	1070	1136	1073	1085
Phosphorus	ppm	ASTM D5185m	1150	915	952	925
Zinc	ppm	ASTM D5185m	1270	1188	1163	1167
Sulfur	ppm	ASTM D5185m	2060	2698	2941	2843
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	7	7
Sodium	ppm	ASTM D5185m		10	9	32
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Fuel	%	ASTM D3524	>3.0	<u>^</u> 2.0	▲ 3.6	△ 4.5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.6	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.6	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	19.7	21.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2

Oxidation

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 9.8

17.4

5.5

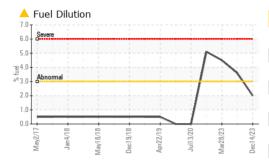
18.3

6.3

15.5



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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

limit/base

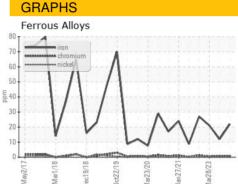
ASTM D445 15.4

current

<u>12.4</u>

12.6

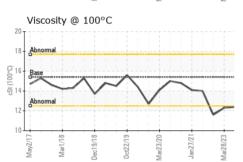
Base No	umber					
1 1 1						
KOH/V		/`	\sim	1		
per (30	_	-/-		\sim	^_^	1
W 4.0		$\sqrt{}$				
2.0	~					
0.0	8	- 61/	20	121	73	
May2	Dec19)	Oct22,	Mar23,	Jan27	Mar28,	
¥	Dec19/18	0ct22/19	Mar23/20	Jan27/21-	Mar28/23	



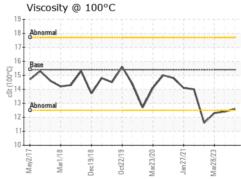
FLUID PROPERTIES method

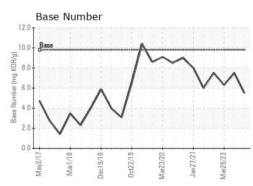
cSt

Visc @ 100°C



Non-ferrous Metals 150 100 50









Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0086188 : 06037458

Recieved Diagnosed : 10792687

: 18 Dec 2023 : 21 Dec 2023 Diagnostician : Wes Davis

Test Package : FLEET (Additional Tests: PercentFuel)

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)

GFL Environmental - 009 - Fairburn

6905 Roosevelt Hwy Fairburn, GA US 30213

history2

12.3

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