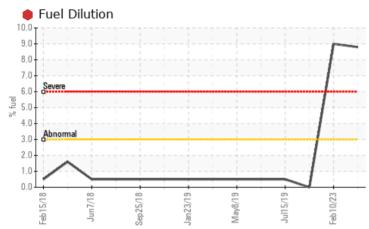


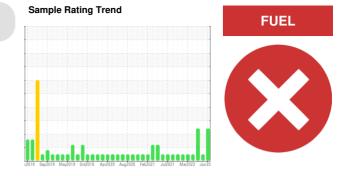
PROBLEM SUMMARY

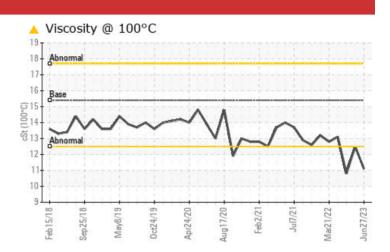
CUMMINS 10851

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (7 GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	SEVERE		
Fuel	%	ASTM D3524	>3.0	8.8	<1.0	9.0		
Visc @ 100°C	cSt	ASTM D445	15.4	🔺 11.1	12.5	1 0.8		

Customer Id: GFL009 Sample No.: GFL0057565 Lab Number: 05887684 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS								
Action	Status	Date	Done By	Description				
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.				
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.				
Resample			?	We recommend an early resample to monitor this condition.				
Check Fuel/injector System			?	We advise that you check the fuel injection system.				

HISTORICAL DIAGNOSIS



25 May 2023 Diag: Wes Davis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





10 Feb 2023 Diag: Don Baldridge

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable.



05 Apr 2022 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT



FUEL

Machine Id **CUMMINS 10851**

Component **Diesel Engine**

Fluid PETRO CANADA DURON SHP 15W40 (7 GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil.

Fluid Condition

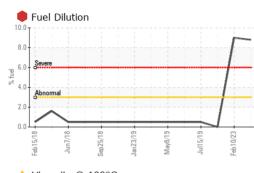
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable.

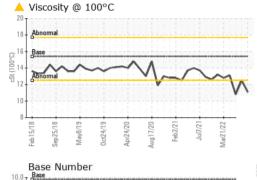


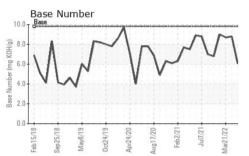
,		52018 Sep201	8 May2019 Oct2019 Apr2	020 Aug2020 Feb2021 Jul2021 N	lar2022 Jun20	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0057565	GFL0057613	GFL0057624
Sample Date		Client Info		27 Jun 2023	25 May 2023	10 Feb 2023
Machine Age	hrs	Client Info		14830	11975	11975
Oil Age	hrs	Client Info		14830	14690	13458
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	SEVERE
CONTAMINATI	ION	method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>75	8	34	23
Chromium	ppm	ASTM D5185m	>5	0	2	1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	<1	4	2
Lead	ppm		>25	0	0	0
Copper	ppm	ASTM D5185m	>100	<1	2	2
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	17	28	9
Barium	ppm	ASTM D5185m	0	14	0	1
Molybdenum	ppm	ASTM D5185m	60	60	82	56
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	771	1020	664
Calcium	ppm	ASTM D5185m	1070	982	1290	916
Phosphorus	ppm	ASTM D5185m	1150	887	1184	769
Zinc	ppm	ASTM D5185m	1270	1107	1459	974
Sulfur	ppm	ASTM D5185m	2060	3202	3805	2403
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	5	19	8
Sodium	ppm	ASTM D5185m		28	36	61
Potassium	ppm	ASTM D5185m	>20	2	2	2
Fuel	%	ASTM D3524	>3.0	8 .8	<1.0	9.0
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	0.3	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.9	13.1	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	23.4	19.8
FLUID DEGRAD	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	24.3	16.5
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	17.0 7.1	24.3 6.1	16.5 6.1



OIL ANALYSIS REPORT







VISUAL		method	limit/base	current	history 1	history 2
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	RTIES	method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	11.1	12.5	▲ 10.8
GRAPHS						

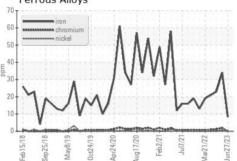
Ferrous Alloys

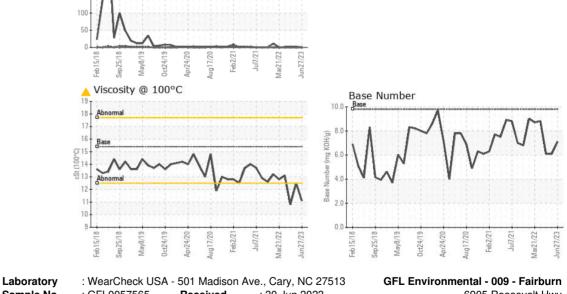
Non-ferrous Metals

lead

350

300





Sample No. : GFL0057565 Received : 30 Jun 2023 Lab Number : 05887684 Diagnosed : 04 Jul 2023 Unique Number : 10538167 Diagnostician : Don Baldridge Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) 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)

6905 Roosevelt Hwy Fairburn, GA US 30213 Contact: Eric Jones erjones@gflenv.com T: (678)630-9927 F:

