WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE ABNORMAL



(MP7991)
Machine Id
FREIGHTLINER 10619

Diesel Engine

PETRO CANADA DURON SHP	15W40 (6 G	AL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number		Client Info		GFL0087510	GFL0109604	-
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		03 Jul 2024	01 Apr 2024	07 Feb 2024
	Machine Age	hrs	Client Info		11104	10523	10183
	Oil Age	hrs	Client Info		581	1053	719
	Filter Age	hrs	Client Info		581	1053	719
	Oil Changed		Client Info		Changed	Changed	Not Changd
	Filter Changed		Client Info		Changed	Changed	Not Changd
	Sample Status				SEVERE	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	44	42	16
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	0	<1	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	1
	Lead	ppm	ASTM D5185m		8	3	1
	Copper	ppm	ASTM D5185m		7	47	24
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10	14	11
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m	>20	25	7	5
	Fuel	%	ASTM D3524	>3.0	▲ 8.1	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	2.1	1.4	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	12.4	10.3	7.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	21.4	19.2
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		53	10	<1
The DNI was all indicates that there is a sitable all allights we recision in the	Boron	ppm	ASTM D5185m	0	5	6	8
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m	0	0	0	<1
	Molybdenum	ppm	ASTM D5185m	60	66	68	59
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		852	975	843
	Calcium	ppm		1070	1146	1189	1075
	Phosphorus	ppm	ASTM D5185m		975	1035	957
	Zinc	ppm	ASTM D5185m		1177	1316	1133
	Sulfur	ppm	ASTM D5185m		2897	3091	3027
	Oxidation	Abs/.1mm	*ASTM D7414		19.4	17.6	14.2
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	7.7	8.7

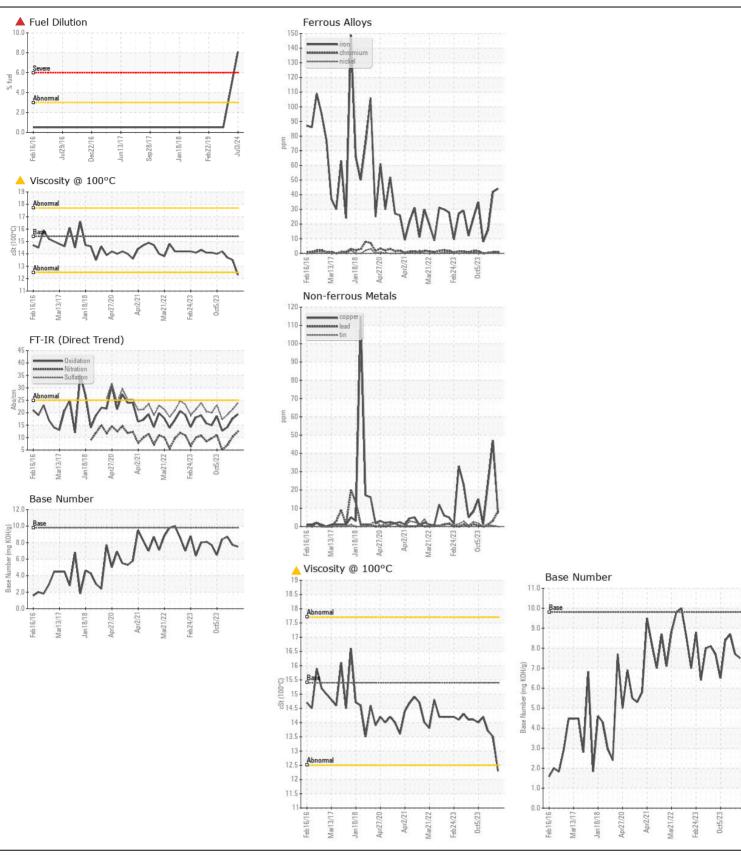
Visc @ 100°C cSt

ASTM D445 15.4

13.5

12.3

13.7







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06231320

: GFL0087510

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested** Unique Number : 11114813

Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 11 Jul 2024 : 11 Jul 2024 - Wes Davis

: 09 Jul 2024

GFL Environmental - 331 - Columbus 180 Ada Moore Rd Columbus, NC US 28722

Contact: Matt Segars matt.segars@gflenv.com T: (800)207-6618

* - 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)

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