

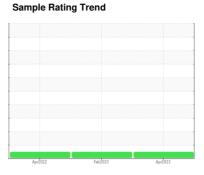
# **OIL ANALYSIS REPORT**



Machine Id 794M FREIGHTLINER M2106

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- QTS)





## **DIAGNOSIS**

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

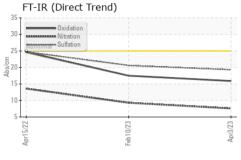
## **Fluid Condition**

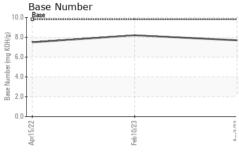
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

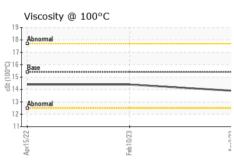
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0072932	GFL0072885	GFL0049308
Sample Date		Client Info		03 Apr 2023	10 Feb 2023	15 Apr 2022
Machine Age	hrs	Client Info		10102	9823	8509
Oil Age	hrs	Client Info		279	700	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	11	21	20
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	2	2
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	<1
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	4	5	3
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	56	62	54
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	878	901	954
Calcium	ppm	ASTM D5185m	1070	1047	1135	1127
Phosphorus	ppm	ASTM D5185m	1150	992	1035	1038
Zinc	ppm	ASTM D5185m	1270	1217	1255	1222
Sulfur	ppm	ASTM D5185m	2060	2900	3034	2479
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	4
Sodium	ppm	ASTM D5185m		4	2	2
Potassium	ppm	ASTM D5185m	>20	<1	3	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.6	9.3	13.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	20.6	24.7
	MOLTA	method	limit/base	current	history1	history2
FLUID DEGRAD	ATION	memou	IIIIII/Dase	Current	Thistory	Thistory Z
FLUID DEGRAD Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	17.5	24.6



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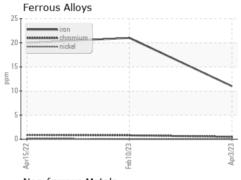


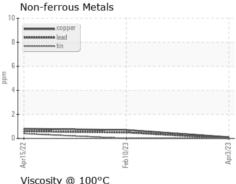


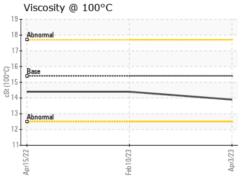
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

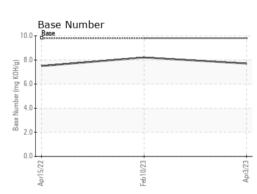
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.4	14.4

## **GRAPHS**













Laboratory Sample No.

: GFL0072932 Lab Number : 05816876 Unique Number : 10419668

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Apr 2023 **Tested** : 13 Apr 2023

Diagnosed : 13 Apr 2023 - Wes Davis

GFL Environmental - 642- Grand Rapids Hauling

5826 Alden Nash Ave SE Lowell, MI US 49331

Contact: Chad Crosby ccrosby@gflenv.com T: (616)299-8425

Test Package : FLEET Certificate 12367 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)