WEAR CONTAMINATION FLUID CONDITION

NORMAL

MARGINAL

NORMAL



Machine Id
201073
Component
Diesel Engine

Diesel Engine PETRO CANADA DURON HP 1	5W40 ( G	AL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Number		Client Info		GFL0117269	GFL0084289	GFL007757
	Sample Date		Client Info		24 Apr 2024	21 Jul 2023	24 Apr 202
	Machine Age	kms	Client Info		724	244358	9095
	Oil Age	kms	Client Info		724	0	459
	Filter Age	kms	Client Info		724	0	459
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				MARGINAL	NORMAL	NORMAI
VEAR	Iron	ppm	ASTM D5185(m)	>80	67	21	22
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)	>5	2	<1	<1
	Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
	Titanium	ppm	ASTM D5185(m)		0	<1	<1
	Silver	ppm	ASTM D5185(m)	>3	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>30	16	9	15
	Lead	ppm	ASTM D5185(m)	>30	0	0	0
	Copper	ppm	ASTM D5185(m)	>150	2	<1	<1
	Tin	ppm	ASTM D5185(m)	>5	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>20	6	10	5
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185(m)	>20	7	4	7
	Fuel	%	ASTM D7593*	>5	<b>▲</b> 3.3	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	ASTM D7922*		0.0	NEG	0.0
	Soot %	%	ASTM D7844*	>3	1.7	0.6	0.8
	Nitration	Abs/cm	ASTM D7624*	>20	16.1	9.3	8.7
	Sulfation	Abs/.1mm	ASTM D7415*	>30	30.5	22.0	20.7
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		5	3	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185(m)	0	3	3	2
	Barium	ppm	ASTM D5185(m)		0	0	0
	Molybdenum	ppm	ASTM D5185(m)		60	58	58
	Manganese	ppm	ASTM D5185(m)		<1	<1	<1
	Magnesium	ppm	ASTM D5185(m)		952	958	939
	Calcium	ppm	ASTM D5185(m)		1054	1072	1111
	Phosphorus	ppm	ASTM D5185(m)		963	1034	1061
	Zinc	ppm	ASTM D5185(m)		1173	1196	1181
	Sulfur	ppm	ASTM D5185(m)	2060	2209	2445	2523

Oxidation

Visc @ 100°C cSt

18.4

7.91

14.5

33.2

6.61

15.8

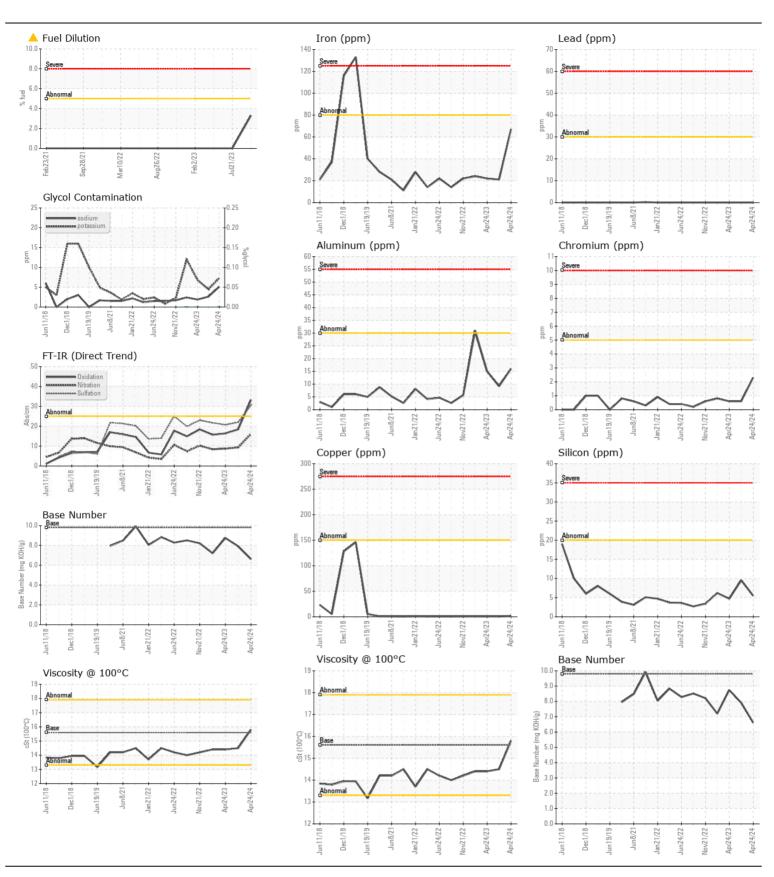
ASTM D7279(m) 15.6

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

16.4

14.4

8.74





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. **Lab Number** 

: GFL0117269

: 02632479 Unique Number : 5773632

Received :01 May 2024 **Tested** Diagnosed

: 03 May 2024

: 03 May 2024 - Kevin Marson Test Package : MOB 2 ( Additional Tests: FUELDILUTION, Glycol, PercentFuel )

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County 220 Carmek Blvd Rocky View County, AB **CA T1X 1X1** 

Contact: GFL Calgary calgarymaintenance@gflenv.com T:

F: (403)369-6163

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.