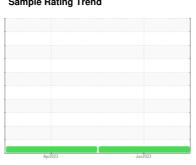


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 421040-455

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- L

# 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

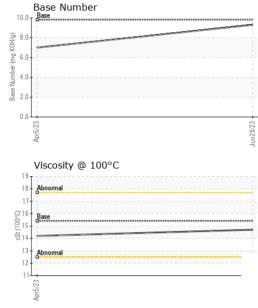
## **Fluid Condition**

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

LTR)			Apr2023	Jun2023		
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0066137	GFL0060334	
Sample Date		Client Info		29 Jun 2023	05 Apr 2023	
Machine Age	hrs	Client Info		6577	5958	
Oil Age	hrs	Client Info		600	500	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	TION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>80	11	16	
Chromium	ppm	ASTM D5185m	>5	1	2	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	3	9	
Lead	ppm	ASTM D5185m	>30	<1	0	
Copper	ppm	ASTM D5185m	>150	7	10	
Tin	ppm	ASTM D5185m	>5	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	14	15	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	65	65	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	986	934	
Calcium	ppm	ASTM D5185m	1070	1144	1151	
Phosphorus	ppm	ASTM D5185m	1150	1068	973	
Zinc	ppm	ASTM D5185m	1270	1316	1242	
Sulfur	ppm	ASTM D5185m	2060	3940	3128	
CONTAMINAN	NTS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>20	8	6	
Sodium	ppm	ASTM D5185m		2	2	
Potassium	ppm	ASTM D5185m	>20	6	10	
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.2	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	6.2	8.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	21.4	
FLUID DEGRA	DATIO <u></u> N	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	18.4	
Base Number (BN)	mg KOH/g	ASTM D2896		9.3	7.0	
_accitation (DIV)	mg norng	. 10 1 111 DE000	3.0	0.0	7.0	



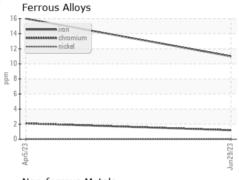
## **OIL ANALYSIS REPORT**



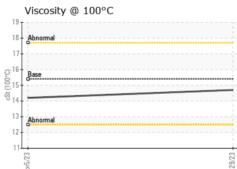
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
- FILUR DD 000						

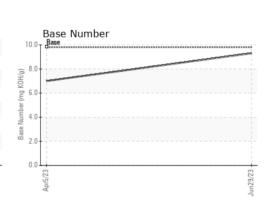
FLUID PROPE	ERITES	method	limit/base		history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	14.7	14.2	

## **GRAPHS**



<sup>10</sup> [ ==	copper	
	nnn lead	
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Apr5/23		
9		







Certificate L2367

Laboratory Sample No. Test Package : FLEET

Lab Number Unique Number : 10546989

: GFL0066137 : 05891179

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06 Jul 2023 Received Diagnosed : 06 Jul 2023

Diagnostician : Wes Davis

GFL Environmental - 904 - Chippewa Falls HC

11888 & 11863 30th Avenue Chippewa Falls, WI US 54729

Contact: Andy Kane

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)

T: (715)202-3420 F: