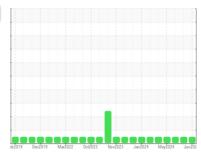


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id
920141
Component
Diesel Engine

## PETRO CANADA DURON SHP 15W40 (11 GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil

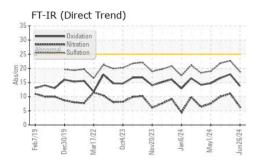
### **Fluid Condition**

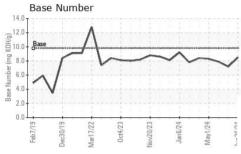
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

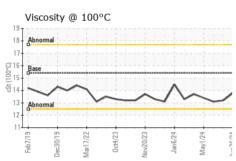
GAL)		302013 Dec	2019 Mar2022 UC202	.s NOVEUES SAILEUEN MAYE	Jun202	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122858	GFL0122883	GFL0122796
Sample Date		Client Info		26 Jun 2024	06 Jun 2024	23 May 2024
Machine Age	hrs	Client Info		24968	24835	24729
Oil Age	hrs	Client Info		0	25961	25855
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	11	43	32
Chromium	ppm	ASTM D5185m	>4	<1	2	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	1	2	3
Lead	ppm	ASTM D5185m	>50	0	3	2
Copper	ppm	ASTM D5185m	>55	<1	2	2
Tin	ppm	ASTM D5185m	>4	<1	1	2
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	0	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	65	59
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	920	1027	935
Calcium	ppm	ASTM D5185m	1070	1071	1218	1056
Phosphorus	ppm	ASTM D5185m	1150	1006	1134	1078
Zinc	ppm	ASTM D5185m	1270	1220	1368	1246
Sulfur	ppm	ASTM D5185m	2060	3369	3532	3408
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4	6	5
Sodium	ppm	ASTM D5185m		2	5	5
Potassium	ppm	ASTM D5185m	>20	0	2	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.7	1.8	1.3
Nitration	Abs/cm	*ASTM D7624	>20	6.4	11.1	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	22.7	21.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	17.9	16.6
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	7.2	7.9
,	0 0					



# **OIL ANALYSIS REPORT**



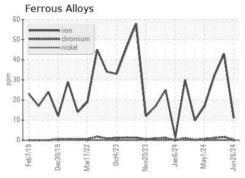


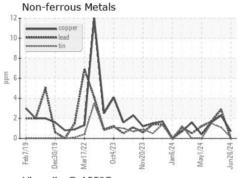


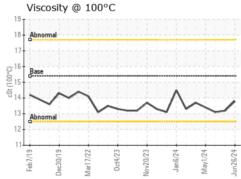
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

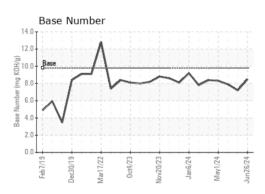
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.2	13.1

### **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06225640

Test Package : FLEET

: GFL0122858

Unique Number : 11103837

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Jul 2024

**Tested** : 03 Jul 2024 Diagnosed : 03 Jul 2024 - Wes Davis

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701

Contact: SARA PATRICK spatrick@gflenv.com

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:

F: