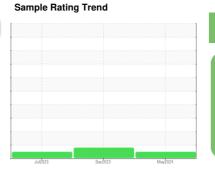


# **OIL ANALYSIS REPORT**

Area (**H917015**) 913050

Diesel Engine

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





## 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

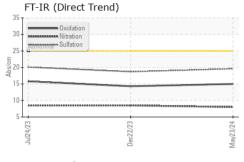
### **Fluid Condition**

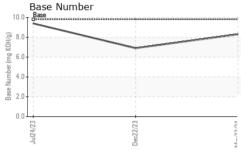
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

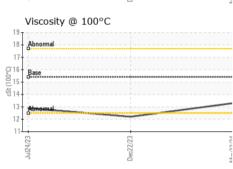
GAL)		Ju	12023	Dec2023 May20	124		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0099788	GFL0073347	GFL0073261	
Sample Date		Client Info		23 May 2024	22 Dec 2023	24 Jul 2023	
Machine Age	hrs	Client Info		600	600	600	
Oil Age	hrs	Client Info		600	600	600	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	MARGINAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<u> </u>	<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	19	20	52	
Chromium	ppm	ASTM D5185m	>20	2	2	2	
Nickel	ppm	ASTM D5185m	>2	0	0	0	
Titanium	ppm	ASTM D5185m	>2	14	0	0	
Silver	ppm	ASTM D5185m	>2	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	17	13	9	
Lead	ppm	ASTM D5185m	>40	0	0	0	
Copper	ppm	ASTM D5185m	>330	<1	<1	4	
Tin	ppm	ASTM D5185m	>15	0	2	0	
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	35	12	6	
Barium	ppm	ASTM D5185m	0	0	0	3	
Molybdenum	ppm	ASTM D5185m	60	46	79	63	
Manganese	ppm	ASTM D5185m		<1	<1	2	
Magnesium	ppm	ASTM D5185m	1010	712	844	1029	
Calcium	ppm	ASTM D5185m	1070	1549	1006	1159	
Phosphorus	ppm	ASTM D5185m	1150	1128	936	1074	
Zinc	ppm	ASTM D5185m	1270	1403	1196	1330	
Sulfur	ppm	ASTM D5185m	2060	4052	2832	3903	
CONTAMINAN	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	4	7	
Sodium	ppm	ASTM D5185m		3	3	2	
Potassium	ppm	ASTM D5185m	>20	42	32	19	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.4	0.6	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	8.0	8.5	8.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	18.7	20.1	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	14.3	15.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	6.9	9.4	
, ,	0						



# **OIL ANALYSIS REPORT**



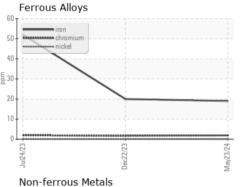


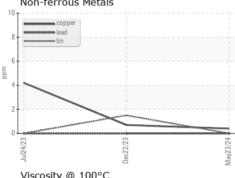


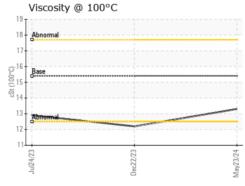
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

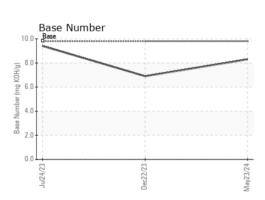
FLUID PROPERTIES		method			history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	12.2	12.9	

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: GFL0099788 Lab Number : 06193201 Unique Number : 11049953 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024

**Tested** : 30 May 2024 Diagnosed : 30 May 2024 - Sean Felton

GFL Environmental - 102 - Morristown TN

415 Ryder Lane, PO Box 1894 Morristown, TN US 37813

Contact: Ricky Dunlap ricky.dunlap@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)

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