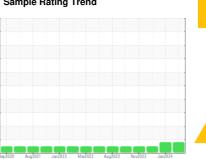


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**WEAR** 

920088-205328

Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (12 GAL)

### **DIAGNOSIS**

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

## Wear

Valve wear is indicated. All other component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

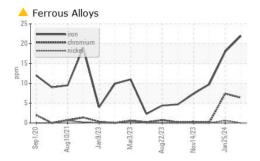
#### **Fluid Condition**

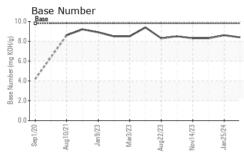
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

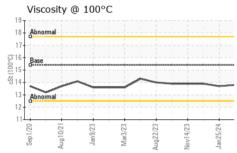
GAL)  Sep2120 Aug/021 Jan/2023 Mar/2023 Mar/2023 Mov/2023 Jan/2024									
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0109158	GFL0109151	GFL0098336			
Sample Date		Client Info		08 Feb 2024	25 Jan 2024	29 Nov 2023			
Machine Age	hrs	Client Info		9788	9659	9342			
Oil Age	hrs	Client Info		700	317	700			
Oil Changed		Client Info		Changed	N/A	Changed			
Sample Status				ABNORMAL	ABNORMAL	NORMAL			
CONTAMINAT	ION	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	>165	22	18	10			
Chromium	ppm	ASTM D5185m	>5	<u>^</u> 6	<u>^</u> 7	<1			
Nickel	ppm	ASTM D5185m	>4	0	<1	0			
Titanium	ppm	ASTM D5185m		0	<1	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	4	2	1			
Lead	ppm	ASTM D5185m	>150	0	<1	0			
Copper	ppm	ASTM D5185m	>90	0	<1	0			
Tin	ppm	ASTM D5185m	>5	0	<1	0			
Vanadium	ppm	ASTM D5185m		<1	0	0			
Cadmium	ppm	ASTM D5185m		0	<1	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	<1	<1	0			
Barium	ppm	ASTM D5185m	0	0	0	3			
Molybdenum	ppm	ASTM D5185m	60	58	57	60			
Manganese	ppm	ASTM D5185m	0	<1	<1	0			
Magnesium	ppm	ASTM D5185m	1010	991	934	870			
Calcium	ppm	ASTM D5185m	1070	1032	961	972			
Phosphorus	ppm	ASTM D5185m	1150	1106	977	945			
Zinc	ppm	ASTM D5185m	1270	1288	1200	1132			
Sulfur	ppm	ASTM D5185m	2060	3148	3110	3185			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>35	4	4	2			
Sodium	ppm	ASTM D5185m		2	0	1			
Potassium	ppm	ASTM D5185m	>20	9	8	4			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>7.5	0.7	0.6	0.6			
Nitration	Abs/cm	*ASTM D7624	>20	6.5	6.0	7.0			
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	18.0	18.5			
FLUID DEGRA	DATION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	12.8	13.7			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.6	8.3			

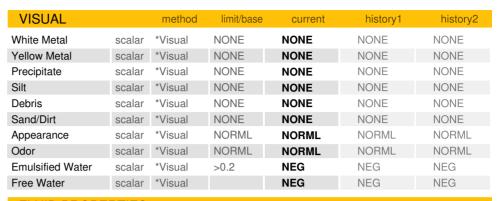


## **OIL ANALYSIS REPORT**



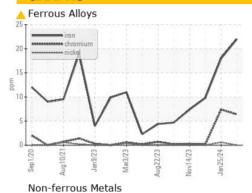




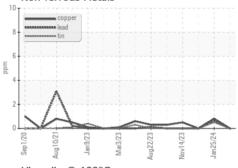


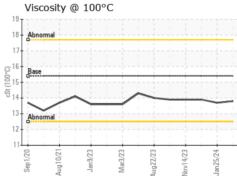
FLUID PROP	EHIIES	method	iiiiii/base	current	riistory i	HIStory
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.7	13.9

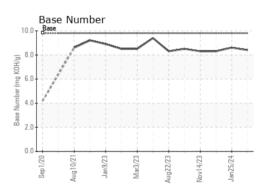
#### **GRAPHS**















Certificate L2367

Laboratory Sample No. Lab Number : 06092661

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109158

Unique Number: 10885514

Received **Tested** 

: 19 Feb 2024 : 20 Feb 2024

: 20 Feb 2024 - Don Baldridge Diagnosed

GFL Environmental - 822 - Springfield Hauling 2120 West Bennett Street

Springfield, MO US 65807

Contact: Dennis Moore dennis.moore@gflenv.com T: (417)403-3641

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)