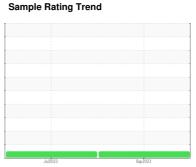


# **OIL ANALYSIS REPORT**



**NORMAL** 



Machine Id 913049

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- G

# DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the

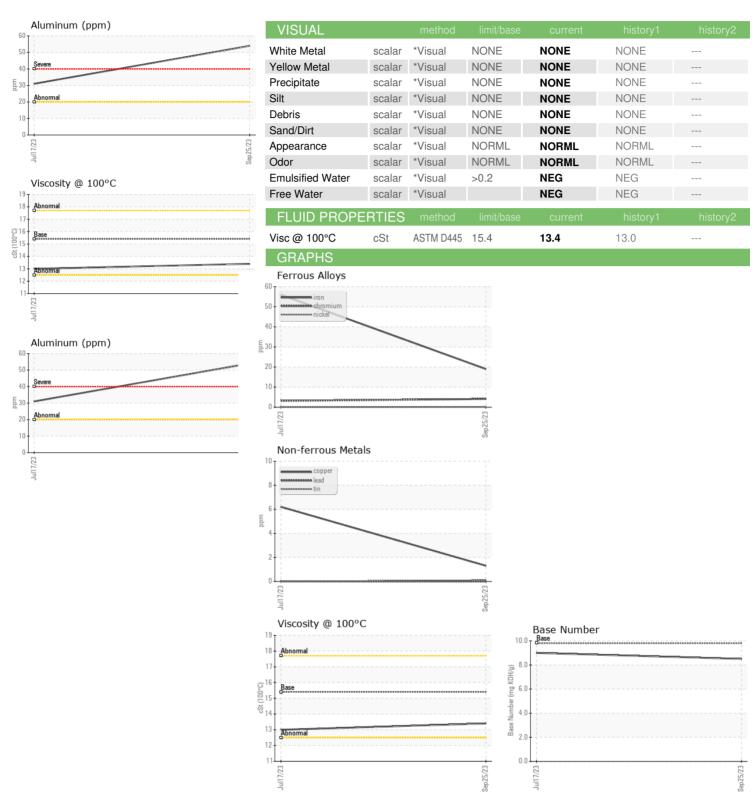
## **Fluid Condition**

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

GAL)			Jul2023	Sep <sup>2</sup> 023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0068132	GFL0068136	
Sample Date		Client Info		25 Sep 2023	17 Jul 2023	
Machine Age	hrs	Client Info		1169	750	
Oil Age	hrs	Client Info		600	600	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	19	56	
Chromium	ppm	ASTM D5185m	>20	4	3	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>20	54	31	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	1	6	
Tin	ppm	ASTM D5185m	>15	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	0	
Barium	ppm	ASTM D5185m	0	0	3	
Molybdenum	ppm	ASTM D5185m	60	63	66	
Manganese	ppm	ASTM D5185m	0	1	3	
Magnesium	ppm	ASTM D5185m	1010	1028	1069	
Calcium	ppm	ASTM D5185m	1070	1154	1194	
Phosphorus	ppm	ASTM D5185m	1150	1175	1088	
Zinc	ppm	ASTM D5185m	1270	1456	1379	
Sulfur	ppm	ASTM D5185m	2060	3701	3927	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	11	
Sodium	ppm	ASTM D5185m		2	2	
Potassium	ppm	ASTM D5185m	>20	81	78	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	6.1	8.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	20.8	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	16.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	9.0	
· /						



# **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number

Unique Number

: GFL0068132 : 05968630 : 10675181 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Oct 2023 : 04 Oct 2023

Diagnosed : Wes Davis Diagnostician

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)

GFL Environmental - 028 - Weldon

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tporch@gflenv.com T: (252)532-3344