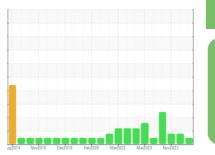


## **OIL ANALYSIS REPORT**

### Sample Rating Trend









Machine Id
4474
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (38 LTR)

# DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

#### Wear

All component wear rates are normal.

#### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

#### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

DN SHP 15W40 (38 LTR)						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117137	GFL0110214	GFL0097790
Sample Date		Client Info		07 May 2024	12 Feb 2024	09 Nov 2023
Machine Age	hrs	Client Info		33500	32646	5241
Oil Age	hrs	Client Info		1200	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>120	8	6	5
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Vickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	<1
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Γin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	3	2	3
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	57	56	55
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	928	905	898
Calcium	ppm	ASTM D5185(m)	1070	1053	1006	975
Phosphorus	ppm	ASTM D5185(m)	1150	951	968	937
Zinc	ppm	ASTM D5185(m)	1270	1129	1106	1105
Sulfur	ppm	ASTM D5185(m)	2060	2448	2619	2394
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<1	2	2
Sodium	ppm	ASTM D5185(m)		1	<1	2
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
Fuel	%	ASTM D7593*	>3.0	2.6	<b>▲</b> 4.9	<b>△</b> 4.5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>5	1	0.4	0.5
Nitration	Abs/cm	ASTM D7624*	>20	6.4	6.9	6.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6	19.3	19.1



### **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Report Id: GFL209 [WCAMIS] 02634021 (Generated: 05/09/2024 14:10:32) Rev: 1

Laboratory Sample No.

Unique Number : 5775174

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 209 - Hamilton : GFL0117137 Lab Number : 02634021

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Received : 08 May 2024 **Tested** Diagnosed

: 09 May 2024

: 09 May 2024 - Wes Davis Test Package : MOB 1 ( Additional Tests: PercentFuel )

CA L8E 3X7 Contact: Fred Carleton fred.carleton@gflenv.com T: (289)925-6693

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