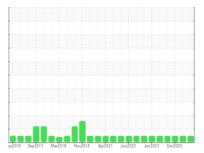


# **OIL ANALYSIS REPORT**

### Sample Rating Trend









Machine Id
9143
Component
Diesel Engine
Fluid

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

ON SHP 15W40 (38 LTR) #2016 5m2017 Mar2018 Nov2018 Apr2021 Jun2022 Jun2022 Jun2022 Jun2022 Jun2022						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0128177	GFL0112475	GFL0099542
Sample Date		Client Info		10 Jul 2024	13 Mar 2024	28 Dec 2023
Machine Age	kms	Client Info		671290	20540	645933
Oil Age	kms	Client Info		0	595	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>120	11	9	10
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Vickel	ppm	ASTM D5185(m)	>5	<1	<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	2	3	2
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	4	2	2
Γin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
/anadium	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	8	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	57	61	56
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	891	948	906
Calcium	ppm	ASTM D5185(m)	1070	1014	1081	1071
Phosphorus	ppm	ASTM D5185(m)	1150	1029	963	939
Zinc	ppm	ASTM D5185(m)	1270	1128	1170	1146
Sulfur	ppm	ASTM D5185(m)	2060	2277	2338	2289
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	9	6	6
Sodium	ppm	ASTM D5185(m)		6	5	5
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1
Fuel	%	ASTM D7593*	>3.0	1.1	<1.0	2.5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.4	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	8.7	8.4	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.5	20.7	20.7



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0128177 Lab Number : 02648038 Unique Number : 5813590

Received : 16 Jul 2024 **Tested** : 17 Jul 2024 : 17 Jul 2024 - Wes Davis Diagnosed

Test Package: MOB 2 (Additional Tests: FuelDilution, PercentFuel)

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. Validity of results and interpretation are based on the sample and information as supplied.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1** 

Contact: GFL Calgary calgarymaintenance@gflenv.com T:

F: (403)369-6163