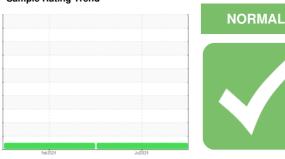


# **OIL ANALYSIS REPORT**

## Sample Rating Trend





Machine Id
414009
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (36 LTR)

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

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. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

## **Fluid Condition**

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

N SHP 15W40 (	36 LTR)	1	Feb2024	Jul2024		
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0126248	GFL0097572	
Sample Date		Client Info		11 Jul 2024	07 Feb 2024	
Machine Age	hrs	Client Info		1619	590	
Oil Age	hrs	Client Info		590	590	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	39	34	
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	
Nickel	ppm	ASTM D5185(m)	>5	3	4	
Titanium	ppm	ASTM D5185(m)	>2	<1	0	
Silver	ppm	ASTM D5185(m)	>2	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>20	3	7	
Lead	ppm	ASTM D5185(m)	>40	5	6	
Copper	ppm	ASTM D5185(m)	>330	173	224	
Tin	ppm	ASTM D5185(m)	>15	3	4	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	19	273	
Barium	ppm	ASTM D5185(m)	0	<1	<1	
Molybdenum	ppm	ASTM D5185(m)	60	77	123	
Manganese	ppm	ASTM D5185(m)	0	2	3	
Magnesium	ppm	ASTM D5185(m)	1010	927	660	
Calcium	ppm	ASTM D5185(m)	1070	1179	1439	
Phosphorus	ppm	ASTM D5185(m)	1150	877	664	
Zinc	ppm	ASTM D5185(m)	1270	1126	756	
Sulfur	ppm	ASTM D5185(m)	2060	1881	2017	
Lithium	ppm	ASTM D5185(m)	2000	<1	<1	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	21	84	
Sodium	ppm	ASTM D5185(m)		3	3	
Potassium	ppm	ASTM D5185(m)	>20	6	8	
Fuel	%	ASTM D7593*	>3.0	0.0	0.6	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.4	0.2	
Nitration	Abs/cm	ASTM D7624*	>20	10.3	9.8	
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.6	26.0	



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02647787 Unique Number : 5813339

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: GFL0126248

Received **Tested** Diagnosed

: 15 Jul 2024 : 16 Jul 2024

: 16 Jul 2024 - Wes Davis

Test Package : MOB 1 ( 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. Report Id: GFL216 [WCAMIS] 02647787 (Generated: 07/16/2024 16:39:26) Rev: 1

15 Bermondsey Road Toronto, ON CA M4B 1Y9 Contact: Tom Hatzioannidis thatzioannidis@gflenv.com

GFL Environmental - 216

T: (416)678-9340