

# **PROBLEM SUMMARY**

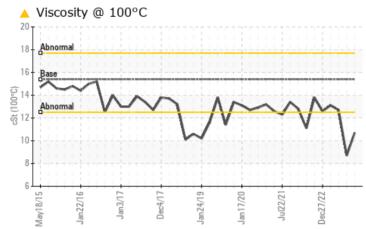


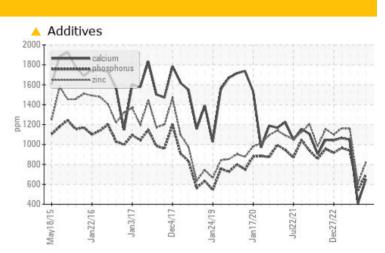
#### Machine Id **10528** Component

Diesel Engine

# PETRO CANADA DURON SHP 15W40 (11 GAL)

# COMPONENT CONDITION SUMMARY





### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ATTENTION	NORMAL		
Magnesium	ppm	ASTM D5185m	1010	🔺 569	<b>A</b> 344	871		
Calcium	ppm	ASTM D5185m	1070	🔺 649	<b>4</b> 10	1049		
Phosphorus	ppm	ASTM D5185m	1150	🔺 696	<b>5</b> 38	940		
Zinc	ppm	ASTM D5185m	1270	<b>A</b> 823	609	1158		
Visc @ 100°C	cSt	ASTM D445	15.4	<b>10.7</b>	▲ 8.7	12.7		

Customer Id: GFL095 Sample No.: GFL0074637 Lab Number: 06008933 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED	RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			

### HISTORICAL DIAGNOSIS



14 Sep 2023 Diag: Doug Bogart

We recommend that you drain the oil and perform a filter service on this component if not already done. Resample at the next service interval to monitor.All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. The BN level is low.



view report

### 14 Jun 2023 Diag: Wes Davis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

#### 09 Mar 2023 Diag: Wes Davis





Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.









# **OIL ANALYSIS REPORT**



#### Machine Id 10528

Component

**Diesel Engine** Fluic

# PETRO CANADA DURON SHP 15W40 (11 GAL)

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

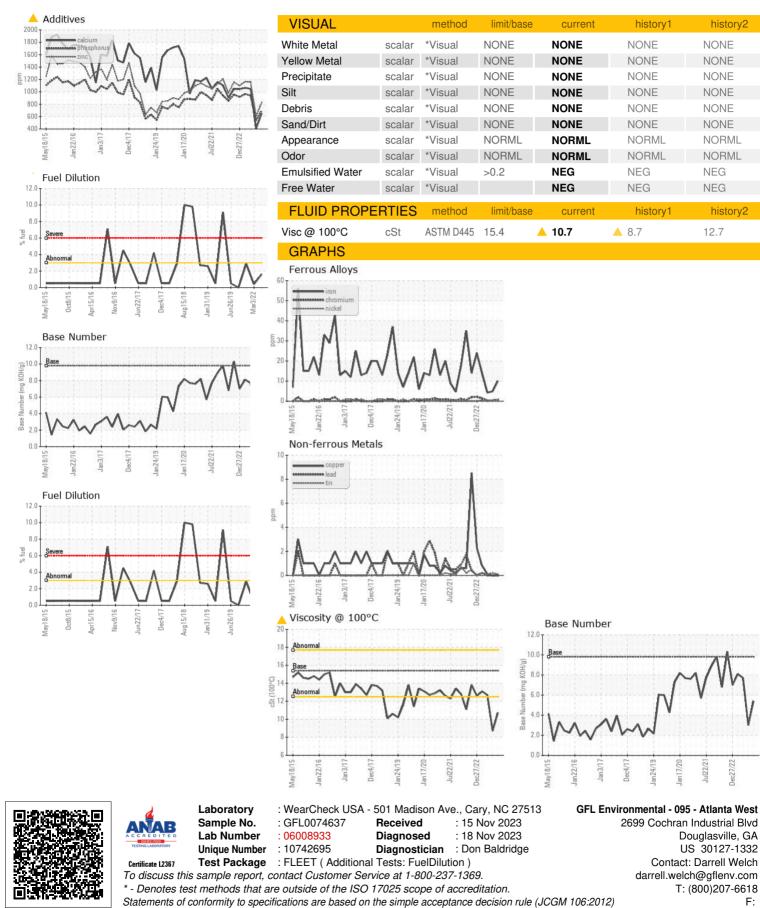
The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil.

GAL)		y2015 Jan20	16 Jan2017 Dec2017	Janžo19 Janžozo Julžoz1 I	ec2022	ŏ	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number Sample Date Machine Age Oil Age Oil Changed	hrs hrs	Client Info Client Info Client Info Client Info Client Info		GFL0074637 13 Nov 2023 49641 559 Changed	GFL0092462 14 Sep 2023 21566 88 Not Changd	GFL0083630 14 Jun 2023 20975 576 Changed	
Sample Status				ATTENTION	ATTENTION	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>75	10	5	4	
Chromium Nickel	ppm	ASTM D5185m ASTM D5185m	>5 >4	<1 <1	<1 <1	<1 0	
Titanium	ppm ppm	ASTM D5185m	>2	0	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>15	2	<1	0	
Lead	ppm	ASTM D5185m	>25	0	0	0	
Copper	ppm	ASTM D5185m	>100	0	0	<1	
Tin	ppm	ASTM D5185m	>4	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	5	<1	8	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	39	21	62	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	<u> </u>	<b>A</b> 344	871	
Calcium	ppm	ASTM D5185m	1070	<u> </u>	<u> </u>	1049	
Phosphorus	ppm	ASTM D5185m	1150	<b>▲</b> 696	▲ 538	940	
Zinc	ppm	ASTM D5185m	1270	▲ 823	▲ 609	1158	
Sulfur	ppm	ASTM D5185m	2060	1922	1713	3370	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	3	3	3	
Sodium	ppm	ASTM D5185m		7	6	3	
Potassium	ppm	ASTM D5185m	>20	2	2	0	
Fuel	%	ASTM D3524	>3.0	<1.0	1.6	<1.0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.4	0.2	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	7.6	4.3	5.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	13.7	17.5	
FLUID DEGRAD		method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	6.9	12.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.4	▲ 3.0	7.7	

Sample Rating Trend



# **OIL ANALYSIS REPORT**



Submitted By: Darrell Welch

Page 4 of 4

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Dec27/22