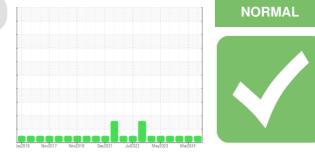


### **OIL ANALYSIS REPORT**

Sample Rating Trend





## 4498

Component Front Diesel Engine

# PETRO CANADA DURON SHP 15W40 (37 LTR)

DIAGNOSIS	
Recommendation	

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

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

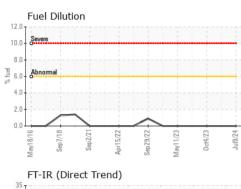
#### Fluid Condition

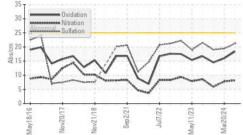
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

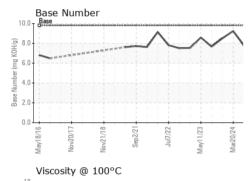
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0128179	GFL0112464	GFL0091565
Sample Date		Client Info		09 Jul 2024	20 Mar 2024	04 Oct 2023
Machine Age	kms	Client Info		282136	20857	224618
Oil Age	kms	Client Info		0	590	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	12	10	12
Chromium	ppm	ASTM D5185(m)	>20	<1	0	0
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	2	2	2
Lead	ppm	ASTM D5185(m)	>40	1	0	<1
Copper	ppm	ASTM D5185(m)	>330	5	2	3
Tin	ppm	ASTM D5185(m)	>15	<1	0	<1
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	6	4	4
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	59	57	58
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	924	935	935
Calcium	ppm	ASTM D5185(m)	1070	1060	1018	1038
Phosphorus	ppm	ASTM D5185(m)	1150	1088	976	980
Zinc	ppm	ASTM D5185(m)	1270	1193	1162	1152
Sulfur	ppm	ASTM D5185(m)	2060	2344	2399	2490
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	4	15
Sodium	ppm	ASTM D5185(m)		15	14	10
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>6.0	0.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	8.2	7.8	5.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.2	19.4	19.0

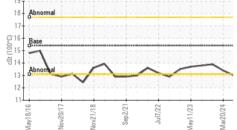


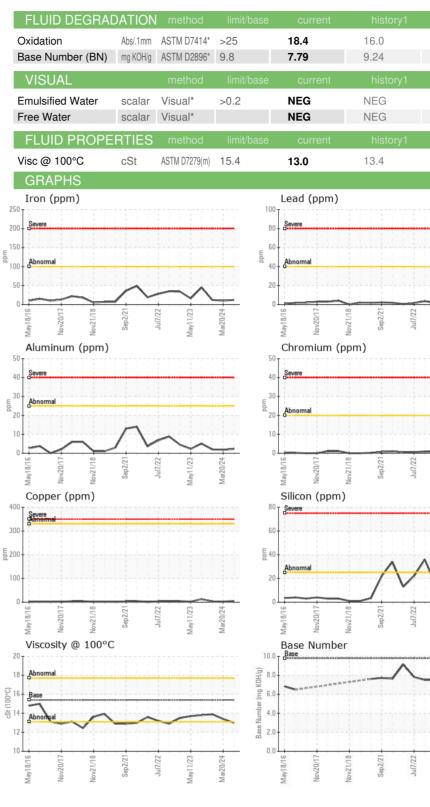
### **OIL ANALYSIS REPORT**











Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County CALA Sample No. : GFL0128179 Received : 16 Jul 2024 Lab Number : 02648040 Tested : 17 Jul 2024 ISO 17025:2017 Accredited : 17 Jul 2024 - Wes Davis Unique Number : 5813592 Diagnosed Laboratory 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.

220 Carmek Blvd Rocky View County, AB CA T1X 1X1 Contact: GFL Calgary calgarymaintenance@gflenv.com T: F: (403)369-6163

Report Id: GFL550 [WCAMIS] 02648040 (Generated: 07/17/2024 15:31:24) Rev: 1

Submitted By: GFL Calgary Page 2 of 2

May11/23

Aar20/72

14.5

8.51

NEG

NEG

13.9

/av11/23

/av11/23

Aar20/74