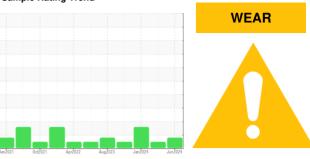


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **5595**Component **Diesel Engine** 

## PETRO CANADA DURON SHP 10W30 (--- LTR)

### DIAGNOSIS

#### Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### Wear

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

### Contamination

There is no indication of any contamination in the oil

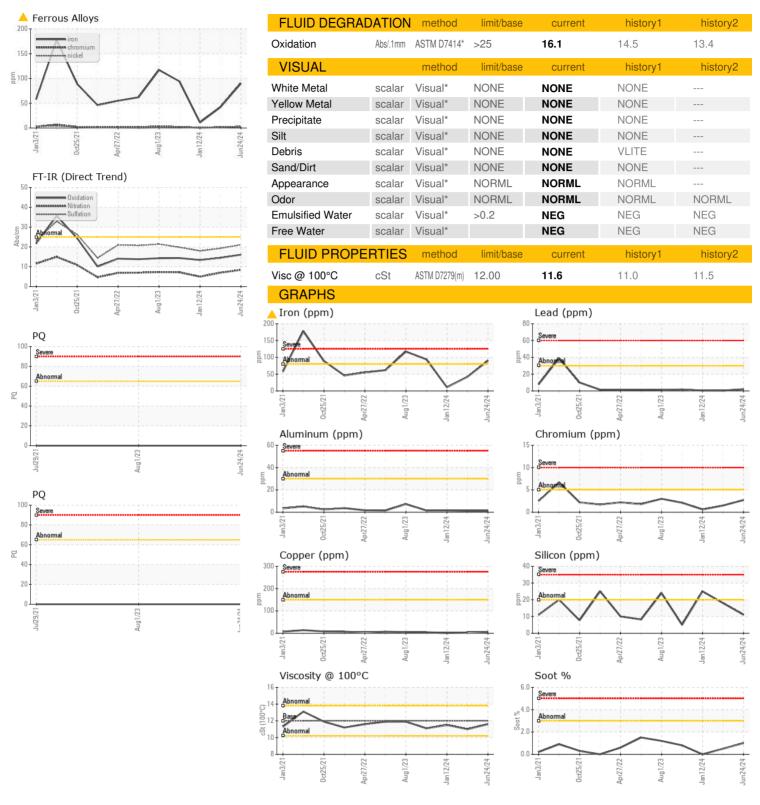
### **Fluid Condition**

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

_TR)		Jan 2021	Oct2021 Apr2022	Aug2023 Jan2024	Jun2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119037	GFL0112576	GFL0102638
Sample Date		Client Info		24 Jun 2024	05 Apr 2024	12 Jan 2024
Machine Age	hrs	Client Info		405349	7075	6994
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*	>65	0		
Iron	ppm	ASTM D5185(m)	>80	<u>^</u> 90	42	11
Chromium	ppm	ASTM D5185(m)	>5	3	2	<1
Nickel	ppm	ASTM D5185(m)	>2	2	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	1	1	2
Lead	ppm	ASTM D5185(m)	>30	2	<1	<1
Copper	ppm	ASTM D5185(m)	>150	6	3	2
Tin	ppm	ASTM D5185(m)	>5	<1	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)	2	3	8	6
Barium	ppm	ASTM D5185(m)	0	<1	<1	9
Molybdenum	ppm	ASTM D5185(m)	50	59	57	57
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	950	966	913	914
Calcium	ppm	ASTM D5185(m)	1050	1077	1053	1059
Phosphorus	ppm	ASTM D5185(m)	995	1001	931	972
Zinc	ppm	ASTM D5185(m)		1194	1105	1115
Sulfur	ppm	ASTM D5185(m)	2600	2406	2425	2718
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	11	18	<u>^</u> 25
Sodium	ppm	ASTM D5185(m)		2	2	3
Potassium	ppm	ASTM D5185(m)	>20	<1	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1	0.5	0
Nitration	Abs/cm	ASTM D7624*	>20	8.4	7.0	5.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.1	19.3	18.0



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number

: GFL0119037 : 02646626 Unique Number : 5812178

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 09 Jul 2024 **Tested** 

: 09 Jul 2024 Diagnosed

: 09 Jul 2024 - Kevin Marson

Test Package : MOB 1 (Additional Tests: PQ, Visual) 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.

Submitted By: Brian Gagne

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Edmonton, AB

**CA T6P 0B8** 

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