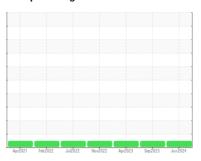


# **OIL ANALYSIS REPORT**

## Sample Rating Trend







T311
Component
Diesel Engine

Machine Id

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil.

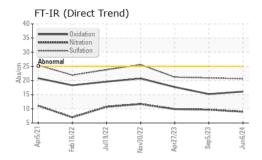
### **Fluid Condition**

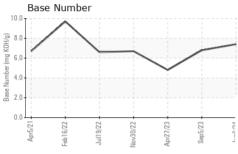
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

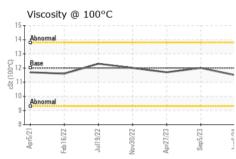
GAL)		Apr2021	Feb2022 Jul2022	Nov2022 Apr2023 Sep2023	Jun2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0125371	PCA0104160	PCA0095694
Sample Date		Client Info		06 Jun 2024	05 Sep 2023	27 Apr 2023
Machine Age	mls	Client Info		280085	226825	6915
Oil Age	mls	Client Info		280085	226825	5179
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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
Iron	ppm	ASTM D5185m	>100	17	23	29
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		4	5	5
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m		2	2	3
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	6	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	50	60	51	63
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	950	960	949	990
Calcium	ppm	ASTM D5185m		1085	1244	1158
Phosphorus	ppm	ASTM D5185m	995	1037	983	1036
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1180 2600	1278 3284	1278 3602	1293 3262
	ppm					
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm		>25	8	12	10
Sodium	ppm	ASTM D5185m	. 20	4	1	3
Potassium	ppm	ASTM D5185m	>20	7	6	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.8	1
Nitration	Abs/cm	*ASTM D7624	>20	9.0	9.7	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.9	21.2
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	15.2	17.7
Base Number (BN)	mg KOH/g	ASTM D2896		7.4	6.8	4.8

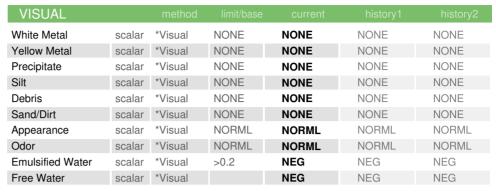


# **OIL ANALYSIS REPORT**



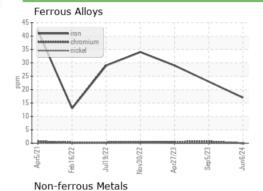


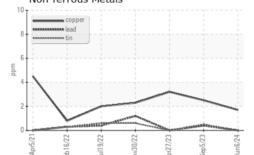


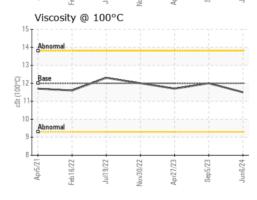


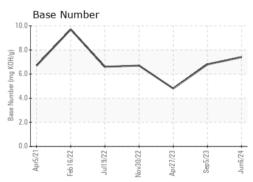
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.5	12.0	11.7

## **GRAPHS**













Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06220690

: PCA0125371 Unique Number : 11098887

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : FLEET

Received : 26 Jun 2024 **Tested** : 27 Jun 2024

Diagnosed : 27 Jun 2024 - Wes Davis

US 29210 Contact: GEORGE EDWARDS

**NW WHITE & CO - COLUMBIA DIVISION** 

gedwards@nwwhite.com T:

100 INDEPENDENCE BLVD

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F:

COLUMBIA, SC