

# **OIL ANALYSIS REPORT**

FLEET 1926694

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (--- QTS)

Sample Rating Trend



## DIAGNOSIS

### Recommendation

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

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

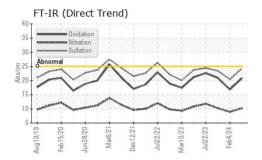
### Fluid Condition

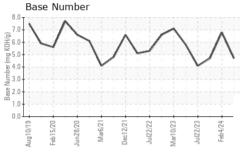
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

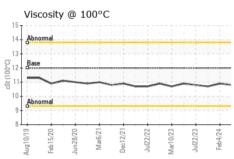
QTS) ug2019 Feb2020 Jun2020 Mar2021 Dec2021 Ju2022 Mar2023 Ju2023 Feb2024						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0114782	PCA0118389	PCA0106348
Sample Date		Client Info		31 Mar 2024	04 Feb 2024	12 Dec 2023
Machine Age	mls	Client Info		0	474017	453256
Oil Age	mls	Client Info		20000	20000	40000
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	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 METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	52	24	46
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		18	17	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m		8	2	4
Lead	ppm	ASTM D5185m	>40	0	1	<1
Copper	ppm	ASTM D5185m		11	5	7
Tin	ppm	ASTM D5185m	>15	1	1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	5	8	0
Barium	ppm	ASTM D5185m		0	13	11
Molybdenum	ppm	ASTM D5185m	50	46	47	57
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	779	756	871
Calcium	ppm	ASTM D5185m	1050	1244	1138	1029
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	995 1180	933 1175	981 1131	875 1164
Sulfur	ppm ppm	ASTM D5185m	2600	3131	3464	2990
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm		>25	5	4	5
Sodium	ppm	ASTM D5185m	720	12	2	11
Potassium	ppm	ASTM D5185m	>20	1	3	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.2	8.9	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	20.4	23.4
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	16.8	20.9
Base Number (BN)	mg KOH/g	ASTM D2896		4.7	6.8	4.7
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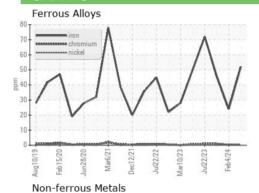


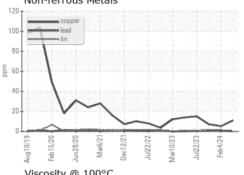


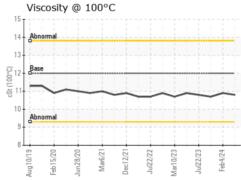
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

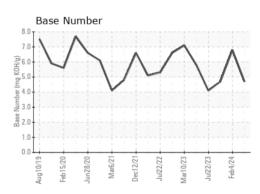
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	12.00	10.8	10.9	10.7	

## **GRAPHS**













Certificate 12367

Laboratory

Sample No. Lab Number : 06143847 Unique Number : 10968655

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0114782 Test Package : FLEET

Received : 10 Apr 2024 **Tested** Diagnosed

: 11 Apr 2024

: 11 Apr 2024 - Wes Davis

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

\* - 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)

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