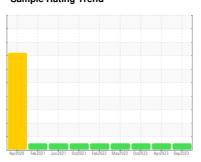


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id
T281
Component
Diesel Engine

PETRO CANADA DURON SHP 10W30 (36 hrs)

## DIAGNOSIS

### Recommendation

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

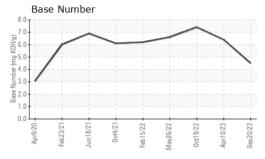
### **Fluid Condition**

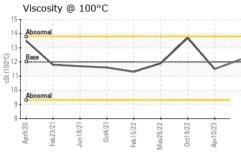
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Apr2020 Feb2021 Jun2021 Oct2021 Feb2022 May/2022 Oct2022 Apr2023 Sap2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0104164	PCA0092504	PCA0081239
Sample Date		Client Info		20 Sep 2023	10 Apr 2023	19 Oct 2022
Machine Age	mls	Client Info		278334	252778	227881
Oil Age	mls	Client Info		25000	25000	25000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	31	26	21
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	6	9	5
Lead	ppm	ASTM D5185m	>45	4	17	<1
Copper	ppm	ASTM D5185m		6	11	2
Tin	ppm	ASTM D5185m	>4	<1	2	<1
Vanadium	ppm	ASTM D5185m	7 7	0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
	ррпп					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	5	37
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	50	66	62	46
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	940	918	721
Calcium	ppm	ASTM D5185m	1050	1133	1214	1463
Phosphorus	ppm	ASTM D5185m	995	1034	972	1031
Zinc	ppm	ASTM D5185m	1180	1292	1256	1269
Sulfur	ppm	ASTM D5185m	2600	2631	2704	3236
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	16	10	8
Sodium	ppm	ASTM D5185m		<1	1	<1
Potassium	ppm	ASTM D5185m	>20	8	6	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	11.1	9.4	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	22.2	23.7
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7	18.5	20.2
Base Number (BN)	mg KOH/g		720	4.5	6.4	7.4
Dase Mulliber (DIN)	ilig NOI1/g	AO INI DZ030		7.0	0.4	7.4



## **OIL ANALYSIS REPORT**

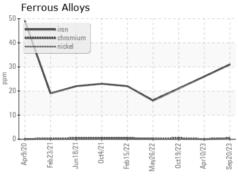


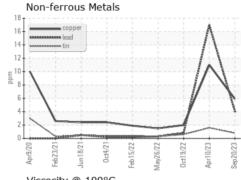


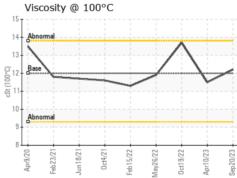
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

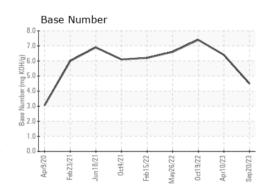
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	12.00	12.2	11.5	13.7	

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10672565 Test Package : FLEET

: PCA0104164 : 05966014

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Oct 2023 : 02 Oct 2023 Diagnosed

Diagnostician : Wes Davis

NW WHITE & CO - SPECIAL SERVICE DIVISION 100 INDEPENDENCE BLVD COLUMBIA, SC

US 29210 Contact: George Edwards gedwards@nwwhite.com T:

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)

F: