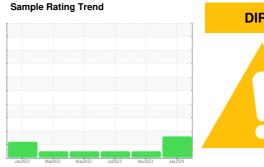


# **OIL ANALYSIS REPORT**

# Plymouth & Brockton 11450

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (36 QTS)





### **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

#### **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)		Jan 2023	Mar2023 May2023	Jul2023 Nov2023	Jan 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0110052	PCA0104682	PCA0013292
Sample Date		Client Info		26 Jan 2024	05 Nov 2023	15 Jul 2023
Machine Age	mls	Client Info		89128	72144	49092
Oil Age	mls	Client Info		12000	24000	24000
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>90	19	16	21
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	<1
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	0	<1
Γin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	7	7
Barium	ppm	ASTM D5185m	0	3	0	0
Molybdenum	ppm	ASTM D5185m	60	84	61	62
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1275	928	976
Calcium	ppm	ASTM D5185m	1070	1418	1129	1140
Phosphorus	ppm	ASTM D5185m	1150	1349	1034	995
Zinc	ppm	ASTM D5185m	1270	1654	1281	1275
Sulfur	ppm	ASTM D5185m	2060	4545	2994	3551
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u>^</u> 25	3	3
Sodium	ppm	ASTM D5185m		2	<1	2
Potassium	ppm	ASTM D5185m	>20	3	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.3	1.8	1.7
Nitration	Abs/cm	*ASTM D7624	>20	7.7	9.9	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	22.6	21.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	16.2	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.31	8.32	9.13



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number

: 06094388 Unique Number: 10887241 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0110052

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

Received : 20 Feb 2024 **Tested** : 21 Feb 2024 Diagnosed

: 21 Feb 2024 - Sean Felton

US 02360 Contact: Donald Pelpquin Dpeloquin@P-B.com T: (508)732-6039

**PLYMOUTH & BROCKTON** 

8 INDUSTRIAL PARK RD

PLYMOUTH, MA

F: (508)732-6091

\* - 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)