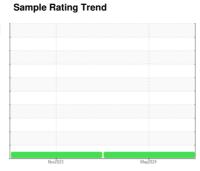


# **OIL ANALYSIS REPORT**

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NORMAL



Machine Id **222673** 

Diesel Engine

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

## DIAGNOSIS

### Recommendation

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

#### Wear

Metal levels are typical for a new component breaking in.

## Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.

TS)			Nov2023	May2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0057344	PCA0057258	
Sample Date		Client Info		03 May 2024	14 Nov 2023	
Machine Age	mls	Client Info		2951	44753	
Oil Age	mls	Client Info		628	11814	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	20	14	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	1	0	
Aluminum	ppm	ASTM D5185m	>20	15	10	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	3	3	
Tin	ppm	ASTM D5185m	>15	1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	5	17	
Barium	ppm	ASTM D5185m	0	1	10	
Molybdenum	ppm	ASTM D5185m	50	58	43	
Manganese	ppm	ASTM D5185m	0	1	<1	
Magnesium	ppm	ASTM D5185m	950	903	549	
Calcium	ppm	ASTM D5185m	1050	1267	1445	
Phosphorus	ppm	ASTM D5185m	995	1017	803	
Zinc	ppm	ASTM D5185m	1180	1245	863	
Sulfur	ppm	ASTM D5185m	2600	3358	2657	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	9	
Sodium	ppm	ASTM D5185m		2	0	
Potassium	ppm	ASTM D5185m	>20	41	24	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	9.7	10.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	20.8	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	19.3	
Base Number (BN)	mg KOH/g	ASTM D2896		8.62	7.60	
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# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

Lab Number : 06190727 Unique Number : 11047479 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0057344 Received : 24 May 2024

**Tested** : 28 May 2024 Diagnosed : 28 May 2024 - Wes Davis

152 FRANK WEST CIRCLE STOCKTON, CA US 95206

Contact: MARCEY LIGHTFOOT marcey.lightfoot@vpps.net T: (209)461-3611

**VALLEY PACIFIC PETROLEUM SERVICES** 

To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - 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: (209)888-6196 Contact/Location: MARCEY LIGHTFOOT - VALSTO