

# **OIL ANALYSIS REPORT**

# BD SHOP 200292

Component **Diesel Engine** 

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

# Sample Rating Trend



### Recommendation

Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates.

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.

GAL)			May2023	May2023		
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0814921	WC0814920	
Sample Date		Client Info		25 May 2023	25 May 2023	
Machine Age	kms	Client Info		112953	112952	
Oil Age	kms	Client Info		1	59345	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIC	N	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	
Glycol		WC Method	7 0.0	NEG	NEG	
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m)	>200	7	39	
Chromium	ppm	ASTM D5185(m)	>6	<1	4	
Nickel	ppm	ASTM D5185(m)	>3	0	<1	
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	
Silver	ppm	ASTM D5185(m)	>2	0	0	
Aluminum	ppm	ASTM D5185(m)	>50	9	50	
Lead	ppm	ASTM D5185(m)	>10	0	3	
Copper	ppm	ASTM D5185(m)	>50	20	123	
Tin	ppm	ASTM D5185(m)	>6	<1	2	
Antimony	ppm	ASTM D5185(m)		0	<1	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)	2	7	6	
Barium	ppm	ASTM D5185(m)	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	50	56	58	
Manganese	ppm	ASTM D5185(m)	0	<1	1	
Magnesium	ppm	ASTM D5185(m)	950	913	921	
Calcium	ppm	ASTM D5185(m)	1050	1071	1267	
Phosphorus	ppm	ASTM D5185(m)	995	1031	1004	
Zinc	ppm	ASTM D5185(m)	1180	1107	1128	
Sulfur	ppm	ASTM D5185(m)	2600	2482	1935	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANT	S	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)	>50	4	4	
Sodium	ppm	ASTM D5185(m)		1	3	
Potassium	ppm	ASTM D5185(m)	>20	17	108	
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	ASTM D7844*	>3	0	0.5	
Nitration	Abs/cm	ASTM D7624*	>20	4.9	8.6	
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1	21.2	



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: 02559359

: WC0814921 : 5580399 Test Package : MOB 2

Received Diagnosed

: 25 May 2023 : 13 Jun 2023 Diagnostician : Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

**WFR Technical Services** 

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