

# **OIL ANALYSIS REPORT**

### Sample Rating Trend





# BD SHOP 200301 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (40 LTR)

# DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### 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

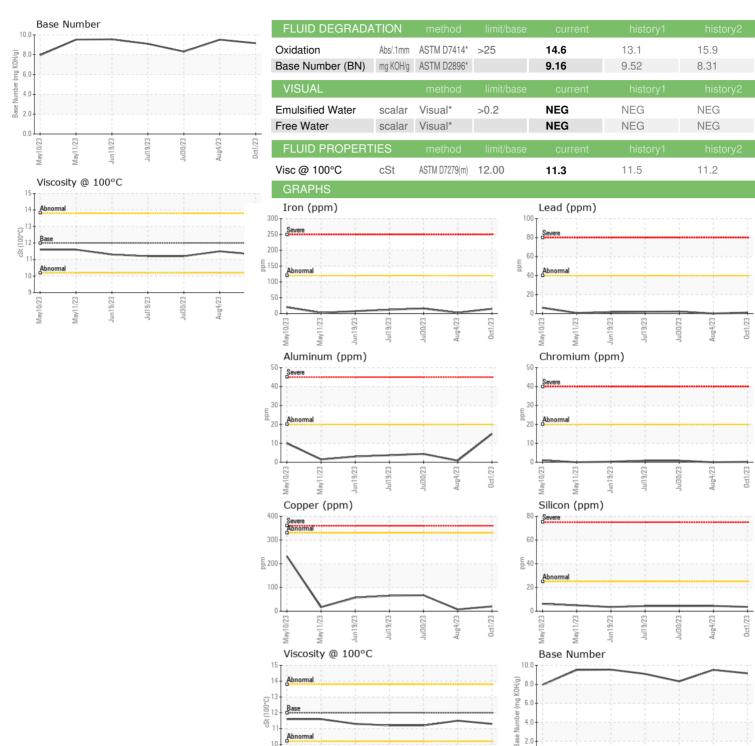
### **Fluid Condition**

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

) 00110 III (40	May2023 May2023 Jun2023 Jul2023 Jul2023 Aug2023 Oct2023					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864662	WC0814936	WC0814935
Sample Date		Client Info		01 Oct 2023	04 Aug 2023	30 Jul 2023
Machine Age	kms	Client Info		155375	143316	143315
Oil Age	kms	Client Info		12059	1	23567
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	15	3	16
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>15	3	1	<b>1</b> 0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	15	<1	4
Lead	ppm	ASTM D5185(m)	>40	1	0	2
Copper	ppm	ASTM D5185(m)	>330	20	8	67
Tin	ppm	ASTM D5185(m)	>15	<1	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	3	4	4
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	50	60	58	60
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	979	942	979
Calcium	ppm	ASTM D5185(m)	1050	1053	1027	1066
Phosphorus	ppm	ASTM D5185(m)	995	1021	1044	1070
Zinc	ppm	ASTM D5185(m)	1180	1188	1152	1184
Sulfur	ppm	ASTM D5185(m)	2600	2620	2590	2494
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	4	4
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	41	1	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0	0	0.2
Nitration	Abs/cm	ASTM D7624*	>20	5.8	4.7	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.0	18.3	20.7



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Laboratory Sample No. Lab Number Unique Number Test Package : MOB 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 02586056

: WC0864662 : 5655122

Received Diagnosed Diagnostician

: 02 Oct 2023 : 03 Oct 2023 : Kevin Marson

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Aug4/23

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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Submitted By: William Ridley