

## **OIL ANALYSIS REPORT**

Sample Rating Trend





## Area BD SHOP 200304 Component Diesel Engine

PETRO CANADA DURON SHP 10W30 (40 LTR)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

Fluid

#### Wear

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 oil.

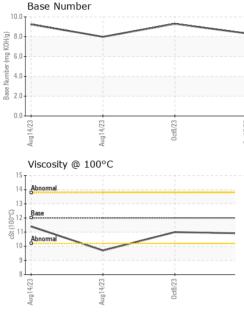
### Fluid Condition

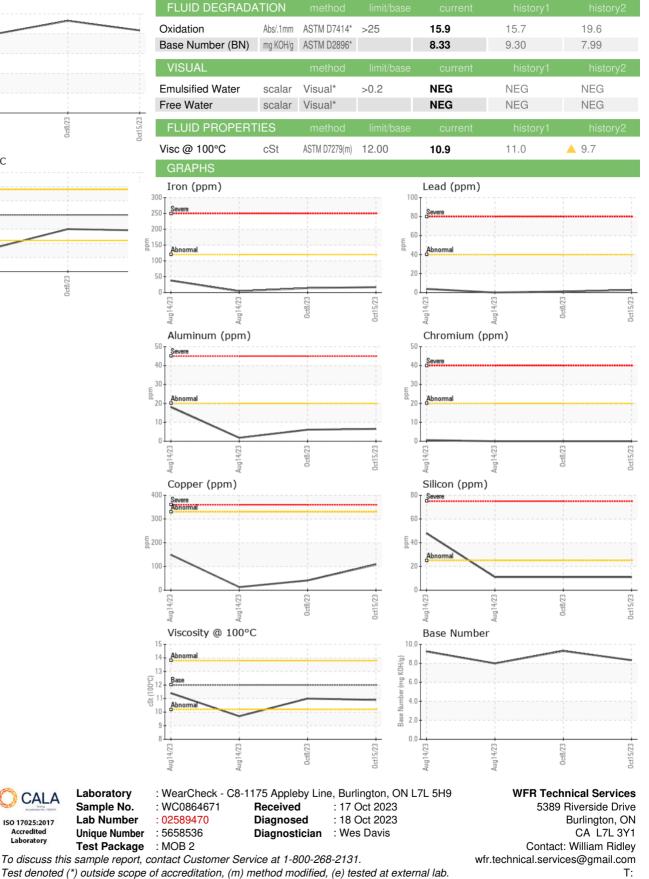
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Aug202	3 Aug2023	Oct2023	Oct2023	
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864671	WC0864666	WC0852033
Sample Date		Client Info		15 Oct 2023	08 Oct 2023	14 Aug 2023
Machine Age	hrs	Client Info		69247	66699	45140
Oil Age	hrs	Client Info		24287	21559	45140
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.6	<b>5</b> .7
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	17	14	38
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	1	1	<1
Aluminum	ppm	ASTM D5185(m)	>20	6	6	18
Lead	ppm	ASTM D5185(m)	>40	3	1	4
Copper	ppm	ASTM D5185(m)	>330	108	41	149
Tin	ppm	ASTM D5185(m)	>15	2	2	5
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	9	9	124
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	67	66	116
Manganese	ppm	ASTM D5185(m)	0	<1	<1	4
Magnesium	ppm	ASTM D5185(m)	950	949	935	705
Calcium	ppm	ASTM D5185(m)	1050	1113	1107	1432
Phosphorus	ppm	ASTM D5185(m)	995	947	953	710
Zinc	ppm	ASTM D5185(m)	1180	1151	1142	780
Sulfur	ppm	ASTM D5185(m)	2600	2371	2407	1923
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	11	11	48
Sodium	ppm	ASTM D5185(m)		2	2	4
Potassium	ppm	ASTM D5185(m)	>20	18	16	58
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.2	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	7.6	7.2	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.5	20.3	23.5



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Validity of results and interpretation are based on the sample and information as supplied.

CALA

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Laboratory

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