

## **OIL ANALYSIS REPORT**

SAMPLE INFORMATION method



limit/base



current

history1

history2

PU215

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

### DIAGNOSIS

#### A Recommendation

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of fuel present in the oil.

#### Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info		PCA0090476 27 Sep 2023 176000 176000 N/A ABNORMAL	PCA0098347 19 Jun 2023 169000 169000 N/A ATTENTION	PCA0083068 05 Apr 2023 164000 164000 N/A ATTENTION
CONTAMINATI	ON	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	50	35	29
Chromium	ppm	ASTM D5185m	>20	3	2	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	13	8	7
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	3	3	3
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	24	24	29
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	91	85	79
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	36	<b>4</b> 1	126
Calcium	ppm	ASTM D5185m	1070	2154	<u> </u>	1887
Phosphorus	ppm	ASTM D5185m	1150	1027	983	923
Zinc	ppm	ASTM D5185m	1270	1226	1208	1082
Sulfur	ppm	ASTM D5185m	2060	3621	4160	3347
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	8	8
Sodium	ppm	ASTM D5185m		2	3	2
Potassium	ppm	ASTM D5185m	>20	0	1	0
Fuel	%	ASTM D3524	>5	<u> </u>	<u> </u>	<b>A</b> 3.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	13.4	12.6	12.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	22.8	20.7
FLUID DEGRAD	<b>ATION</b>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.4	22.3	19.1
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	5.32	7.26	8.89
		DECOU				0.00



# **OIL ANALYSIS REPORT**



\* - 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)

Jun 19/23

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TAUNTON, MA

US 02780

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T:

F:

history2

NONE

NONE

NONE

NONE NONE

NONE

NORML

NORML

history

NEG

NEG

▲ 11.3