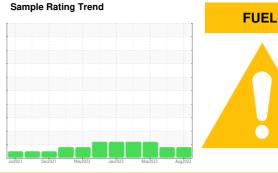


# **OIL ANALYSIS REPORT**

# RIDGEWAY [RIDGEWAY] DB170105E Unit 05

**Natural Gas Engine** 

PETRO CANADA DURON MONOGRADE HD 40W (350 GAL)



### **DIAGNOSIS**

#### Recommendation

We advise that you check the fuel injection system. Resample at the next service interval to monitor. ( Customer Sample Comment: All oil filters connected to this unit were changed.)

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of fuel present in the

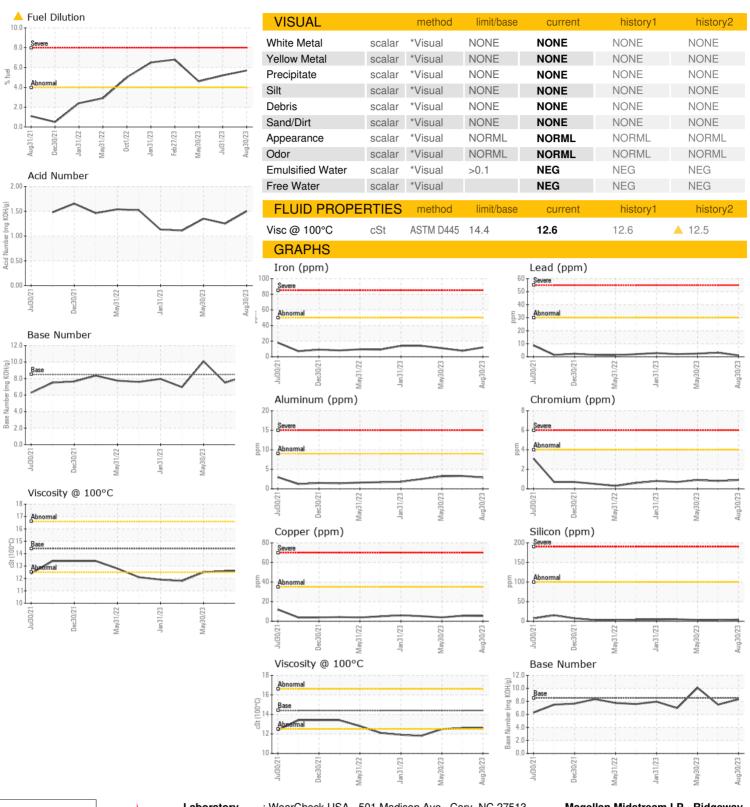
#### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid.

-		Jul2021	Dec2021 May2022	Jan2023 May2023	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0094546	PCA0094545	PCA0094544
Sample Date		Client Info		30 Aug 2023	31 Jul 2023	30 May 2023
Machine Age	hrs	Client Info		29016	28954	28301
Oil Age	hrs	Client Info		10834	4544	3891
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	12	8	11
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	3	3	3
Lead	ppm	ASTM D5185m	>30	1	3	2
Copper	ppm	ASTM D5185m	>35	5	6	4
Tin	ppm	ASTM D5185m	>4	<1	1	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		13	14	14
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		16	20	18
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		855	845	832
Calcium	ppm	ASTM D5185m		1244	1357	1239
Phosphorus	ppm	ASTM D5185m		1068	1125	1066
Zinc	ppm	ASTM D5185m		1307	1360	1275
Sulfur	ppm	ASTM D5185m		3887	3570	3869
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	3	3
Sodium	ppm	ASTM D5185m		4	2	3
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Fuel	%	ASTM D3524	>4.0	<u>▲</u> 5.7	<u>▲</u> 5.2	<u>4.6</u>
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	4.9	5.1	5.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.1	14.6	14.1
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	7.6	8.8	7.2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.50	1.25	1.35
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.33	7.50	10.09



## **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number **Unique Number** 

: 05942398 : 10633010

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0094546 Received : 05 Sep 2023 : 07 Sep 2023 Diagnosed Diagnostician : Sean Felton

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)

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