

# **OIL ANALYSIS REPORT**

**FARIBAULT** [FARIBAULT] Unit 04 DB020104E

**Natural Gas Engine** 

PETRO CANADA DURON MONOGRADE HD 40W (350 GAL)

Sample Rating Trend



## DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: 147 gallons of lube oil added this month.)

#### Wear

All component wear rates are normal.

## Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

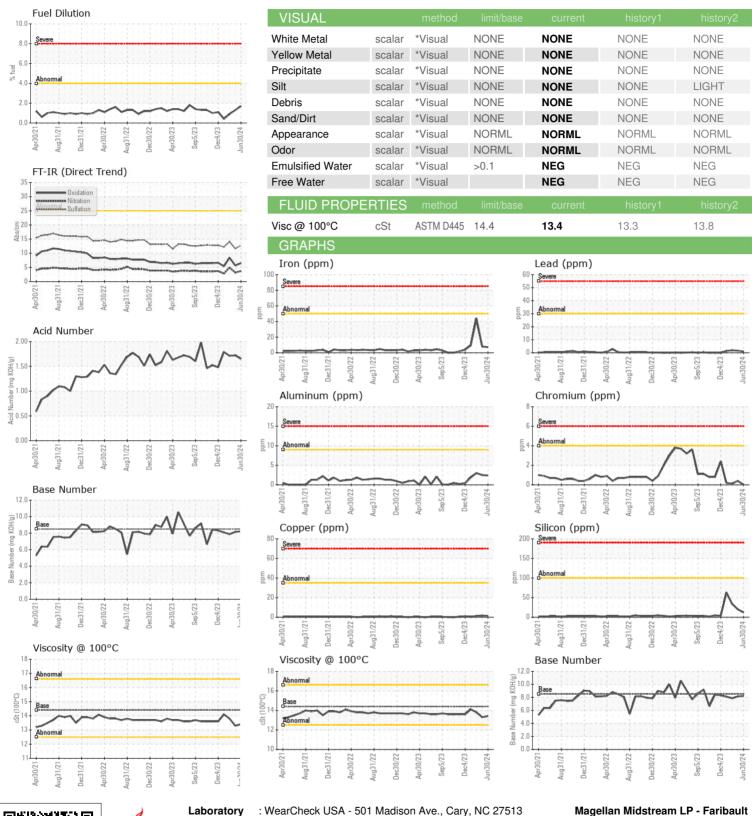
### **Fluid Condition**

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

D 40W (350 GAL	.)	rr2021 Aug202	1 Dec2021 Apr2022 Aug2	022 Dec2022 Apr2023 Sep2023 Di	oc2023 Jun20	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0124425	PCA0124423	PCA0124421
Sample Date		Client Info		30 Jun 2024	29 May 2024	26 Apr 2024
Machine Age	hrs	Client Info		939	499	183
Oil Age	hrs	Client Info		939	499	183
Oil Changed		Client Info		Not Changd	Oil Added	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	7	8	44
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	3
Lead	ppm	ASTM D5185m	>30	<1	2	2
Copper	ppm	ASTM D5185m	>35	1	2	1
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	2	3
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		857	869	931
Calcium	ppm	ASTM D5185m		997	983	1050
Phosphorus	ppm	ASTM D5185m		1144	961	1171
Zinc	ppm	ASTM D5185m		1292	1267	1296
Sulfur	ppm	ASTM D5185m		3650	3532	3768
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	12	20	34
Sodium	ppm	ASTM D5185m		3	<1	2
Potassium	ppm	ASTM D5185m	>20	2	2	0
Fuel	%	ASTM D3524	>4.0	1.7	1.3	0.9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	3.7	3.2	4.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	12.8	11.6	14.1
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	6.5	5.7	8.4
Acid Number (AN)	mg KOH/g	ASTM D8045		1.65	1.72	1.71
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.22	8.15	7.87



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number

: PCA0124425 : 06231873 Unique Number : 11115366

Received : 09 Jul 2024 **Tested** 

: 11 Jul 2024 : 11 Jul 2024 - Don Baldridge Diagnosed

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

 $^st$  - 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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