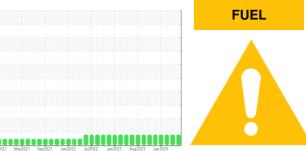


OIL ANALYSIS REPORT

Sample Rating Trend



INDEPENDENCE Unit 04 DB200104E

Natural Gas Engine

PETRO CANADA DURON MONOGRADE HD 40W (250 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. No other contaminants were detected in the oil.

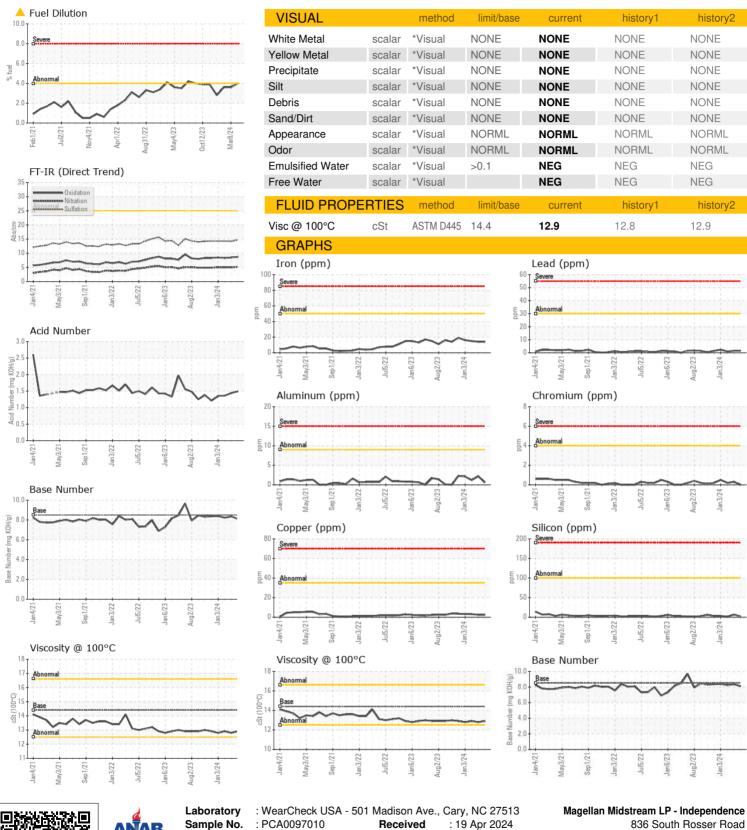
Fluid Condition

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.

SAMPLE INFORM						
Cample Ni	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0097010	PCA0097014	PCA0097016
Sample Date		Client Info		15 Apr 2024	08 Mar 2024	07 Feb 2024
Machine Age	hrs	Client Info		13655	13428	13357
Oil Age	hrs	Client Info		13655	13428	13357
Oil Changed		Client Info		Not Changd	Filtered	Not Changd
Sample Status				ABNORMAL	MARGINAL	MARGINAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	14	14	15
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	2	1
Lead	ppm	ASTM D5185m	>30	2	2	1
Copper	ppm	ASTM D5185m	>35	2	2	3
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	4	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	4	4
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		872	878	926
Calcium	ppm	ASTM D5185m		1028	1054	1050
Phosphorus	ppm	ASTM D5185m		987	1049	999
Zinc	ppm	ASTM D5185m		1099	1258	1276
Sulfur	ppm	ASTM D5185m		3014	3016	2800
CONTAMINAN	TS	method	limit/base	current	history1	history2
	ppm	ASTM D5185m	100	_	_	_
Silicon		AO IIVI DO IOOIII	>+100	2	7	2
Silicon Sodium	ppm	ASTM D5185m	>+100	2 3	7 <1	0
	ppm ppm		>20			
Sodium		ASTM D5185m		3	<1	0
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20	3 0	<1 1	0 2
Sodium Potassium Fuel	ppm	ASTM D5185m ASTM D5185m ASTM D3524	>20 >4.0	3 0 ▲ 4.0	<1 1 • 3.6	0 2 • 3.6
Sodium Potassium Fuel INFRA-RED	ppm %	ASTM D5185m ASTM D5185m ASTM D3524 method	>20 >4.0 limit/base	3 0 ▲ 4.0 current	<1 1 • 3.6 history1	0 2 ▲ 3.6 history2
Sodium Potassium Fuel INFRA-RED Soot %	ppm %	ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	>20 >4.0 limit/base	3 0 ▲ 4.0 current 0.1	<1 1 3.6 history1	0 2 ▲ 3.6 history2 0.1
Sodium Potassium Fuel INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >4.0 limit/base	3 0 ▲ 4.0 current 0.1 5.2	<1 1 3.6 history1 0.1 5.0	0 2 ▲ 3.6 history2 0.1 5.0
Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >4.0 limit/base >20 >30	3 0 ▲ 4.0 current 0.1 5.2 14.7	<1 1 3.6 history1 0.1 5.0 14.2	0 2 ▲ 3.6 history2 0.1 5.0 14.3
Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD	% % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	>20 >4.0 limit/base >20 >30 limit/base	3 0 ▲ 4.0 current 0.1 5.2 14.7 current	<1 1 1 3.6 history1 0.1 5.0 14.2 history1	0 2 ▲ 3.6 history2 0.1 5.0 14.3 history2



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

: PCA0097010 Lab Number : 06154648

Unique Number : 10990071

Received **Tested**

: 24 Apr 2024 Diagnosed Test Package: MOB 2 (Additional Tests: FuelDilution, PercentFuel)

: 24 Apr 2024 - Jonathan Hester

To discuss this sample report, contact Customer Service at 1-800-237-1369.

US 67301 Contact: Heath James heath.james@magellanlp.com T: (620)779-2040

 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)

Independence, KS