

OIL ANALYSIS REPORT

FARIBAULT [FARIBAULT] Unit 03 DB020103E

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: 91 gallons of lube oil added this month.)

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

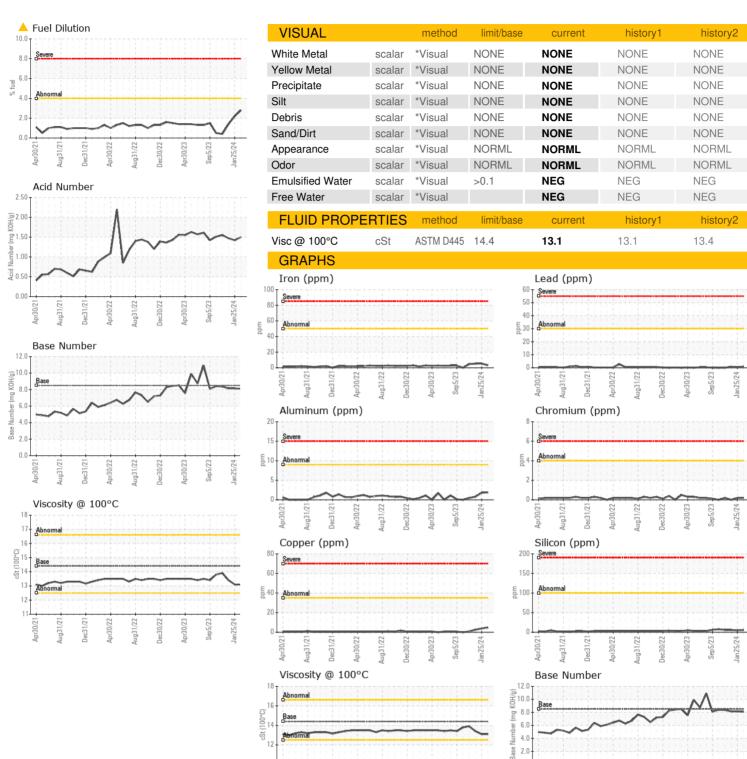
Fluid Condition

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	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0098887	PCA0098886	PCA0098885
Sample Date		Client Info		29 Feb 2024	25 Jan 2024	28 Dec 2023
Machine Age	hrs	Client Info		1723	987	408
Oil Age	hrs	Client Info		1723	987	408
Oil Changed		Client Info		Not Changd	Oil Added	Not Changd
Sample Status				MARGINAL	NORMAL	NORMAL
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	3	5	5
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	<1
Lead	ppm	ASTM D5185m	>30	<1	<1	<1
Copper	ppm	ASTM D5185m	>35	5	4	3
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	2	2
Barium	ppm	ASTM D5185m		0	5	0
Molybdenum	ppm	ASTM D5185m		2	2	3
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		929	896	902
Calcium	ppm	ASTM D5185m		1019	1025	1024
Phosphorus	ppm	ASTM D5185m		1062	1114	1011
Zinc	ppm	ASTM D5185m		1327	1246	1268
Sulfur	ppm	ASTM D5185m		3079	3390	2991
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	5	5	6
Sodium	ppm	ASTM D5185m		1	0	1
Potassium	ppm	ASTM D5185m	>20	1	1	0
Fuel	%	ASTM D3524	>4.0	2.8	2.2	1.4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	4.0	3.7	3.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	13.5	12.9	12.5
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FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
FLUID DEGRAD Oxidation		*ASTM D7414	>25	7.2	6.7	6.2
	Abs/.1mm mg KOH/g					



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Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: 06108847 Unique Number: 10912344

: PCA0098887 Received : 05 Mar 2024 **Tested**

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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

: 07 Mar 2024 : 07 Mar 2024 - Sean Felton

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22535 Bagley Avenue

US 55021 Contact: Jon Coulter Jon.Coulter@magellanlp.com

Magellan Midstream LP - Faribault

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. T: (507)381-9649

Faribault, MN