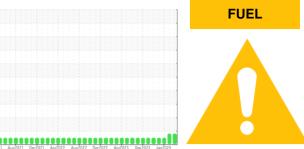


OIL ANALYSIS REPORT

Sample Rating Trend



FARIBAULT [FARIBAULT] Unit 03 DB020103E

Natural Gas Engine

PETRO CANADA DURON MONOGRADE HD 40W (350 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 95 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.

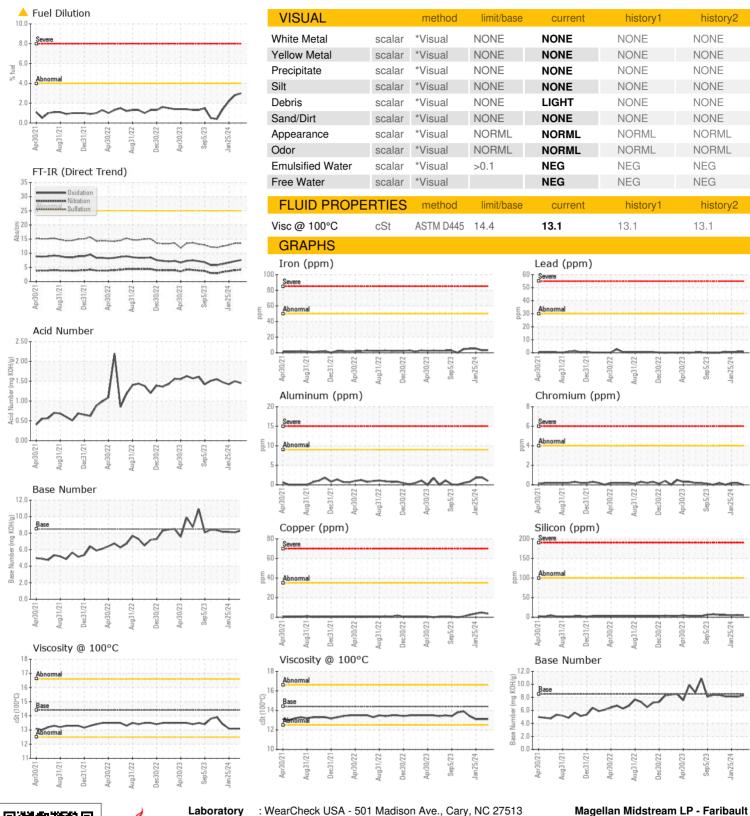
Fluid Condition

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 INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0098889	PCA0098887	PCA0098886
Sample Date		Client Info		02 Apr 2024	29 Feb 2024	25 Jan 2024
Machine Age	hrs	Client Info		2334	1723	987
Oil Age	hrs	Client Info		2334	1723	987
Oil Changed		Client Info		Not Changd	Not Changd	Oil Added
Sample Status				MARGINAL	MARGINAL	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
ron	ppm	ASTM D5185m	>50	3	3	5
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
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	1	2	2
_ead	ppm	ASTM D5185m	>30	<1	<1	<1
Copper	ppm	ASTM D5185m	>35	4	5	4
Tin	ppm	ASTM D5185m	>4	1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	1	2
Barium	ppm	ASTM D5185m		0	0	5
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		905	929	896
Calcium	ppm	ASTM D5185m		1026	1019	1025
Phosphorus	ppm	ASTM D5185m		1127	1062	1114
Zinc	ppm	ASTM D5185m		1308	1327	1246
Sulfur	ppm	ASTM D5185m		3003	3079	3390
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	5	5	5
Sodium	ppm	ASTM D5185m		2	1	0
Potassium	ppm	ASTM D5185m	>20	0	1	1
Fuel	%	ASTM D3524	>4.0	▲ 3.0	<u>^</u> 2.8	2.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0
Vitration	Abs/cm	*ASTM D7624	>20	4.2	4.0	3.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	13.5	13.5	12.9
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	7.6	7.2	6.7
		710111127111		7.0	/ · <u>~</u>	0.7
Acid Number (AN)	mg KOH/g	ASTM D8045	720	1.45	1.50	1.42



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: PCA0098889

Lab Number : 06142451 Unique Number: 10967259

Received **Tested**

: 11 Apr 2024 - Jonathan Hester Diagnosed Test Package: MOB 2 (Additional Tests: FuelDilution, PercentFuel)

: 08 Apr 2024

: 11 Apr 2024

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)

Magellan Midstream LP - Faribault

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