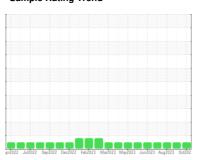


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id (S/N 1457456)

Biogas Engine

PETRO CANADA SENTRON LD 8000 (--- 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

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

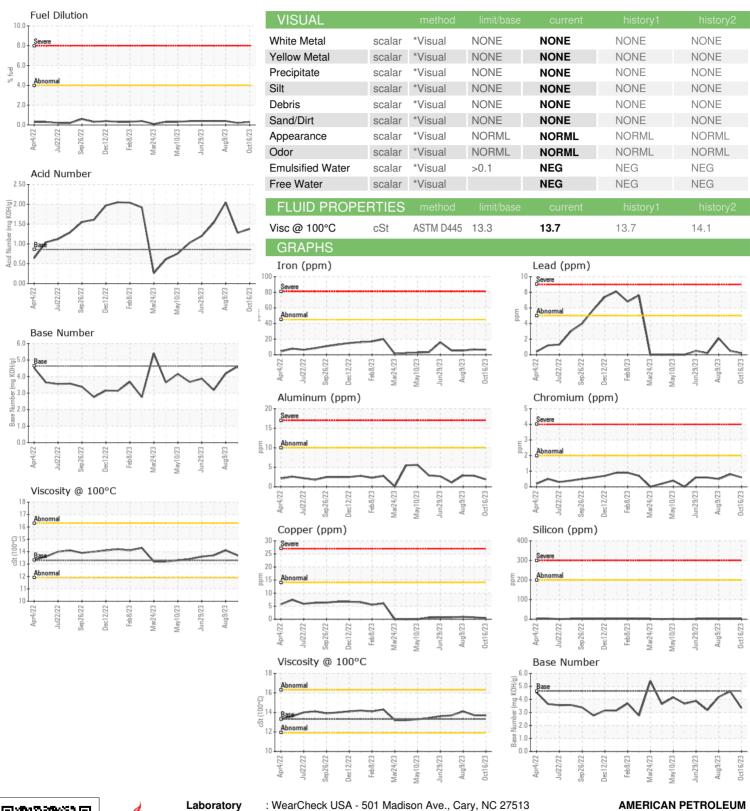
Fluid Condition

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.

SAMPLE INFORMATION method limit/base current history1 history1 Sample Number Client Info PCA0106181 PCA0106183 PCA0096 Sample Date Client Info 16 Oct 2023 24 Sep 2023 09 Aug 2 Machine Age hrs Client Info 8336 7836 7414 Oil Age hrs Client Info 0 3171 3974 Oil Changed Client Info N/A Changed N/A Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history1 Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >45 6 7 5 Chromium ppm ASTM D5185m >2 <1 <1 <1	6517 023 - -
Sample Date Client Info 16 Oct 2023 24 Sep 2023 09 Aug 2 Machine Age hrs Client Info 8336 7836 7414 Oil Age hrs Client Info 0 3171 3974 Oil Changed Client Info N/A Changed N/A Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history1 Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >45 6 7 5	023 - ry2
Sample Date Client Info 16 Oct 2023 24 Sep 2023 09 Aug 2 Machine Age hrs Client Info 8336 7836 7414 Oil Age hrs Client Info 0 3171 3974 Oil Changed Client Info N/A Changed N/A Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history1 Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >45 6 7 5	- ry2
Machine Age hrs Client Info 8336 7836 7414 Oil Age hrs Client Info 0 3171 3974 Oil Changed Client Info N/A Changed N/A Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history1 Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >45 6 7 5	ry2
Oil Changed Client Info N/A Changed N/A Sample Status NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history1 Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >45 6 7 5	ry2
Sample Status NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history1 Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >45 6 7 5	ry2
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WEAR METALS method limit/base current history1 histor Iron ppm ASTM D5185m >45 6 7 5	ry2
Iron ppm ASTM D5185m >45 6 7 5	ry2
Chromium ppm ASTM D5185m >2 <1 <1 <1	
PP	
Nickel ppm ASTM D5185m >2 0 0 0	
Titanium ppm ASTM D5185m 0 0 <1	
Silver ppm ASTM D5185m >5 0 0 0	
Aluminum ppm ASTM D5185m >10 2 3 3	
Lead ppm ASTM D5185m >5 <1 <1 2	
Copper ppm ASTM D5185m >14 <1	
Tin ppm ASTM D5185m >13 3 2 3	
Vanadium ppm ASTM D5185m 0 0 <1	
Cadmium ppm ASTM D5185m 0 0 0	
ADDITIVES method limit/base current history1 histo	ry2
Boron ppm ASTM D5185m 0 0 0	
Barium ppm ASTM D5185m 0 0 0	
Molybdenum ppm ASTM D5185m <1	
Manganese ppm ASTM D5185m 0 0 <1	
Magnesium ppm ASTM D5185m 10 12 14	
Calcium ppm ASTM D5185m 1351 1751 1727 1805	
Phosphorus ppm ASTM D5185m 302 334 326 332	
Zinc ppm ASTM D5185m 358 417 434 415	
0.17	
Sulfur ppm ASTM D5185m 2758 3120 3112 3488	
CONTAMINANTS method limit/base current history1 history	ry2
CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >200 2 3 2	ry2
CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >200 2 3 2 Sodium ppm ASTM D5185m 2 1 5	ry2
CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >200 2 3 2 Sodium ppm ASTM D5185m 2 1 5 Potassium ppm ASTM D5185m >20 0 1 1	ry2
CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >200 2 3 2 Sodium ppm ASTM D5185m 2 1 5 Potassium ppm ASTM D5185m >20 0 1 1 Fuel % ASTM D3524 >4.0 0.3 0.2 0.4	ry2
CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >200 2 3 2 Sodium ppm ASTM D5185m 2 1 5 Potassium ppm ASTM D5185m >20 0 1 1	
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CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >200 2 3 2 Sodium ppm ASTM D5185m 2 1 5 Potassium ppm ASTM D5185m >20 0 1 1 Fuel % ASTM D3524 >4.0 0.3 0.2 0.4 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 6.3 6.0 6.7	ry2
CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >200 2 3 2 Sodium ppm ASTM D5185m 2 1 5 Potassium ppm ASTM D5185m >20 0 1 1 Fuel % ASTM D3524 >4.0 0.3 0.2 0.4 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 6.3 6.0 6.7 Sulfation Abs/.1mm *ASTM D7415 >30 21.6 20.5 20.5	ry2
CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >200 2 3 2 Sodium ppm ASTM D5185m 2 1 5 Potassium ppm ASTM D5185m >20 0 1 1 Fuel % ASTM D3524 >4.0 0.3 0.2 0.4 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 6.3 6.0 6.7 Sulfation Abs/.1mm *ASTM D7415 >30 21.6 20.5 20.5 FLUID DEGRADATION method limit/base current history1 history1	ry2



OIL ANALYSIS REPORT







Certificate L2367

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

: PCA0106181

: 05984209 : 10701504 Received : 19 Oct 2023 Diagnosed

: 20 Oct 2023 Diagnostician : Doug Bogart Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

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

US 00949 Contact: NEFTALI ORTIZ

nortiz@americanpetroleumpr.com T: (787)794-1985

CARR 865 KM 0.2 CAMPANILA

* - 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)

F:

TOA BAJA, PR