

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id M7 (S/N 1457487) Component

Biogas Engine

PETRO CANADA SENTRON LD 8000 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

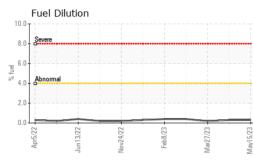
Fluid Condition

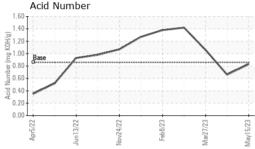
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

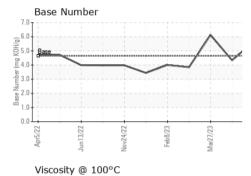
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L)		Apr2022	Junž022 Novž022	Feb2023 Mar2023	May2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0096488	PCA0096484	PCA0089745
Sample Date		Client Info		15 May 2023	15 Apr 2023	27 Mar 2023
Machine Age	hrs	Client Info		4084	3510	3062
Dil Age	hrs	Client Info		1254	0	232
Dil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>45	4	2	<1
Chromium	ppm	ASTM D5185m	>2	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	5	<1
ead	ppm	ASTM D5185m	>5	0	0	0
Copper	ppm	ASTM D5185m	>14	<1	0	0
īn	ppm	ASTM D5185m	>13	<1	0	0
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Nolybdenum	ppm	ASTM D5185m		1	<1	<1
Nanganese	ppm	ASTM D5185m		<1	<1	<1
/lagnesium	ppm	ASTM D5185m		12	11	12
Calcium	ppm	ASTM D5185m	1351	1657	1578	1530
Phosphorus	ppm	ASTM D5185m	302	319	306	285
Zinc	ppm	ASTM D5185m	358	405	384	366
Sulfur	ppm	ASTM D5185m	2758	3673	3741	3300
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>200	2	1	2
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Fuel	%	ASTM D3524	>4.0	0.3	0.3	0.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0
Vitration	Abs/cm	*ASTM D7624	>20	5.6	5.1	4.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	18.9	17.5
Junation						
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
FLUID DEGRAD	DATION Abs/.1mm	method *ASTM D7414	limit/base			
				current 13.6 0.83	history1 12.6 0.66	history2 11.2 1.059

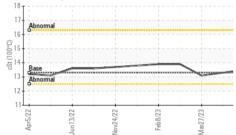


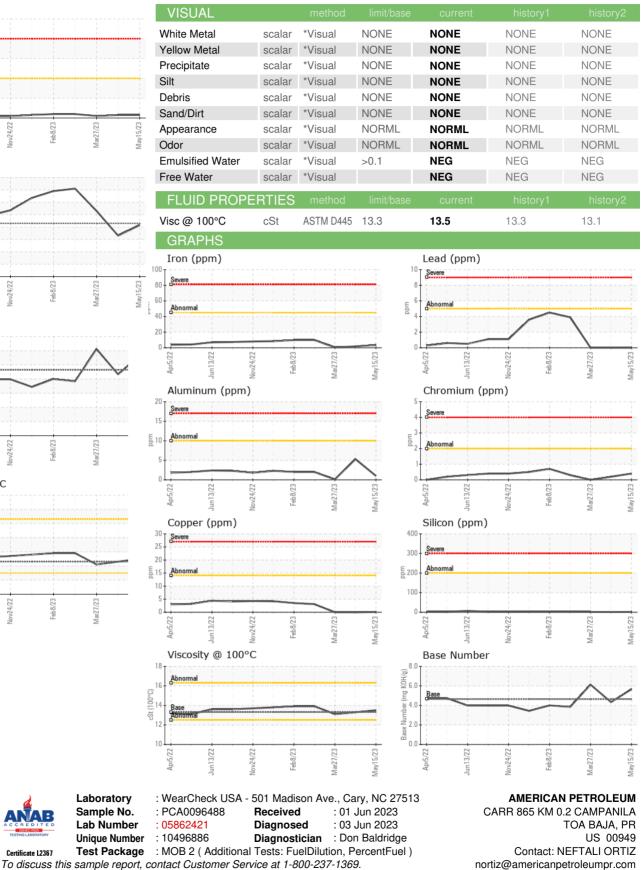
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* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Certificate L2367

Laboratory

Sample No.

Lab Number

F:

T: (787)794-1985