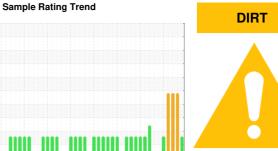


OIL ANALYSIS REPORT

DT Sam





Machine Id
GZJ00314
Component
Biogas Engine
Fluid

PETRO CANADA SENTRON CG 40 (145 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Total oil added 46Gal)

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. Elemental level of silicon (Si) above normal.

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.

RON CG 40 (145 GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0836472	WC0836484	WC0836483
Sample Date		Client Info		30 Oct 2023	16 Oct 2023	09 Oct 2023
Machine Age	hrs	Client Info		126821	126484	126316
Oil Age	hrs	Client Info		305	970	802
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE
CONTAMINATION	V	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>45	4	5	6
Chromium	ppm	ASTM D5185m	>2	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>5	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	1	3	3
Lead	ppm	ASTM D5185m	>5	<1	1	<1
Copper	ppm	ASTM D5185m	>14	1	2	2
Tin	ppm	ASTM D5185m	>13	2	5	5
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	1	<1
Barium	ppm	ASTM D5185m	1	4	0	0
Molybdenum	ppm	ASTM D5185m	2	1	0	1
Manganese	ppm	ASTM D5185m	1	0	<1	<1
Magnesium	ppm	ASTM D5185m	9	12	15	13
Calcium	ppm	ASTM D5185m	2712	2858	3112	3055
Phosphorus	ppm	ASTM D5185m	292	311	310	314
Zinc	ppm	ASTM D5185m	342	360	394	418
Sulfur	ppm	ASTM D5185m	2575	3660	3438	4358
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>200	^ 202	338	334
Sodium	ppm	ASTM D5185m		0	2	0
Potassium	ppm	ASTM D5185m	>20	1	0	1
Fuel	%	ASTM D3524	>4.0	0.3	0.3	0.3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	5.6	6.5	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	22.6	22.5
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
		******				45.0
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.0	15.8	15.2
Oxidation Acid Number (AN)	Abs/.1mm mg KOH/g	*ASTM D/414 ASTM D8045	>25	12.0 0.95	15.8	15.2



OIL ANALYSIS REPORT



* - 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:

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