

OIL ANALYSIS REPORT

DAEWOO TOWERSIDE PG1

Propane Engine

PETRO CANADA SENTRON LD 5000 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

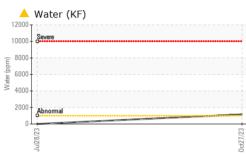
		Jul2023	0ct2023		
MATION	method	limit/base	current	history1	history2
	Client Info		PC0073810	PC0073694	
	Client Info		27 Oct 2023	28 Jul 2023	
hrs	Client Info		11485	10835	
hrs	Client Info		640	0	
	Client Info		Changed	Changed	
			ABNORMAL	NORMAL	
S	method	limit/base	current	history1	history2
ppm	ASTM D5185(m)	>100	29	34	
ppm	ASTM D5185(m)	>25	5	6	
ppm	ASTM D5185(m)	>5	1	1	
			0	0	
	ASTM D5185(m)	>5	0	0	
	()		-		
	. ,				
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	()	20			
	()		-		
	()				
ppm	()		U	-	
	method	limit/base	current	history1	history2
ppm	ASTM D5185(m)	2	<1	1	
ppm	ASTM D5185(m)	3	0	0	
ppm	ASTM D5185(m)	0	<1	<1	
ppm	ASTM D5185(m)	0	<1	1	
ppm	ASTM D5185(m)	4	10	5	
ppm	ASTM D5185(m)	1727	2013	1223	
ppm	ASTM D5185(m)	272	346	629	
ppm	ASTM D5185(m)	333	414	751	
	ASTM D5185(m)	3415	3011	2331	
ppm	ASTM D5185(m)		<1	<1	
TS	method	limit/base	current	history1	history2
ppm	ASTM D5185(m)	>50	3	3	
ppm	ASTM D5185(m)		1	2	
ppm	ASTM D5185(m)	>20	<1	0	
%	ASTM D6304*	>0.1	A 0.116		
ppm	ASTM D6304*	>1000	1162		
	method	limit/base	current	history1	history2
	methou				
%	ASTM D7844*		0	0	
	ASTM D7844*				
% Abs/cm Abs/.1mm		>20 >30	0 8.5 18.6	0 5.1 16.1	
Abs/cm Abs/.1mm	ASTM D7844* ASTM D7624*	>20	8.5	5.1 16.1	
Abs/cm	ASTM D7844* ASTM D7624* ASTM D7415*	>20 >30	8.5 18.6	5.1	
	hrs hrs hrs ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	Client Info Client Info hrs Client Info Client Info ASTM D5185(m) ppm ASTM D5185(m)	AATION method limit/base Client Info Client Info hrs Client Info hrs Client Info hrs Client Info hrs Client Info Client Info Client Info hrs Client Info Client Info Imit/base ppm ASTM D5185(m) >100 ppm ASTM D5185(m) >25 ppm ASTM D5185(m) >5 ppm ASTM D5185(m) >5 ppm ASTM D5185(m) >20 ppm ASTM D5185(m) >20 ppm ASTM D5185(m) >20 ppm ASTM D5185(m) >20 ppm ASTM D5185(m) >3 ppm ASTM D5185(m) >8 ppm ASTM D5185(m) >8 ppm ASTM D5185(m) 2 ppm ASTM D5185(m) 2 ppm ASTM D5185(m) 2 ppm ASTM D5185(m) 2 <tr< td=""><td>AATION method limit/base current Client Info 27 Oct 2023 hrs Client Info 11485 hrs Client Info 640 Client Info 640 Changed hrs Client Info 640 Client Info Changed ABNORMAL ppm ASTM D5185(m) >100 29 ppm ASTM D5185(m) >25 5 ppm ASTM D5185(m) >5 1 ppm ASTM D5185(m) >5 0 ppm ASTM D5185(m) >20 6 ppm ASTM D5185(m) >3 0 ppm ASTM D5185(m) 2 <1</td> ppm ASTM D5185</tr<>	AATION method limit/base current Client Info 27 Oct 2023 hrs Client Info 11485 hrs Client Info 640 Client Info 640 Changed hrs Client Info 640 Client Info Changed ABNORMAL ppm ASTM D5185(m) >100 29 ppm ASTM D5185(m) >25 5 ppm ASTM D5185(m) >5 1 ppm ASTM D5185(m) >5 0 ppm ASTM D5185(m) >20 6 ppm ASTM D5185(m) >3 0 ppm ASTM D5185(m) 2 <1	MATION method limit/base current history1 Client Info PC0073810 PC0073694 Client Info 11485 10835 hrs Client Info 11485 10835 hrs Client Info 640 0 Client Info 640 0 Changed Client Info Client Info Changed Changed Client Info Client Info Current history1 ppm ASTM D5185(m) >100 29 34 ppm ASTM D5185(m) >25 5 6 ppm ASTM D5185(m) >5 0 0 ppm ASTM D5185(m) >20 6 5 ppm ASTM D5185(m) >20 6 17 ppm ASTM D5185(m) >35 6 17 ppm ASTM D5185(m) >8 <1

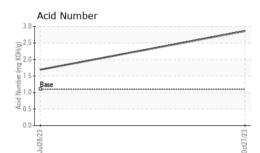
Sample Rating Trend

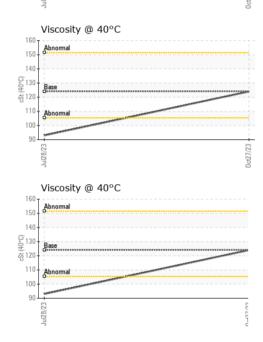
WATER



OIL ANALYSIS REPORT





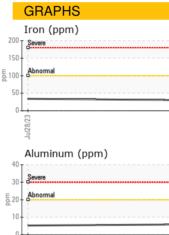


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Precipitate	scalar	Visual*	NONE	NONE	NONE	
Silt	scalar	Visual*	NONE	VLITE	NONE	
Debris	scalar	Visual*	NONE	NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.1	2%	NEG	
Free Water	scalar	Visual*		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	124	124	93.0	
Visc @ 100°C	cSt	ASTM D7279(m)	13.48	13.5	13.3	
Viscosity Index (VI)	Scale	ASTM D2270*	104	104	142	

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Copper (ppm)

Viscosity @ 100°C

80

60

E.40

20

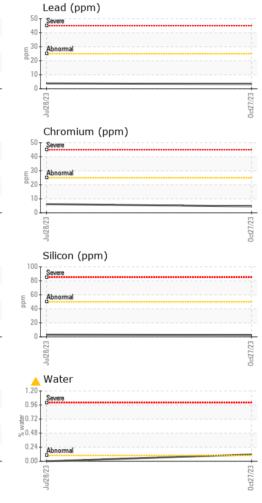
0

18

100°

73 12 - Abnorma

10



: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Martin Energy Group Canada Laboratory CALA Sample No. : PC0073810 Received : 09 Feb 2024 1050 Boyde Lane RR#1 Lab Number : 02614625 Tested : 12 Feb 2024 Linwood, ON ISO 17025:2017 Accredited Laboratory Unique Number : 5723720 : 13 Feb 2024 - Kevin Marson CA NOB 2A0 Diagnosed Test Package : MOB 2 (Additional Tests: KF, KV40, TAN Man, VI, Visual) Contact: J Wagler To discuss this sample report, contact Customer Service at 1-800-268-2131. jwagler@martinenergygroup.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: Validity of results and interpretation are based on the sample and information as supplied. F: