

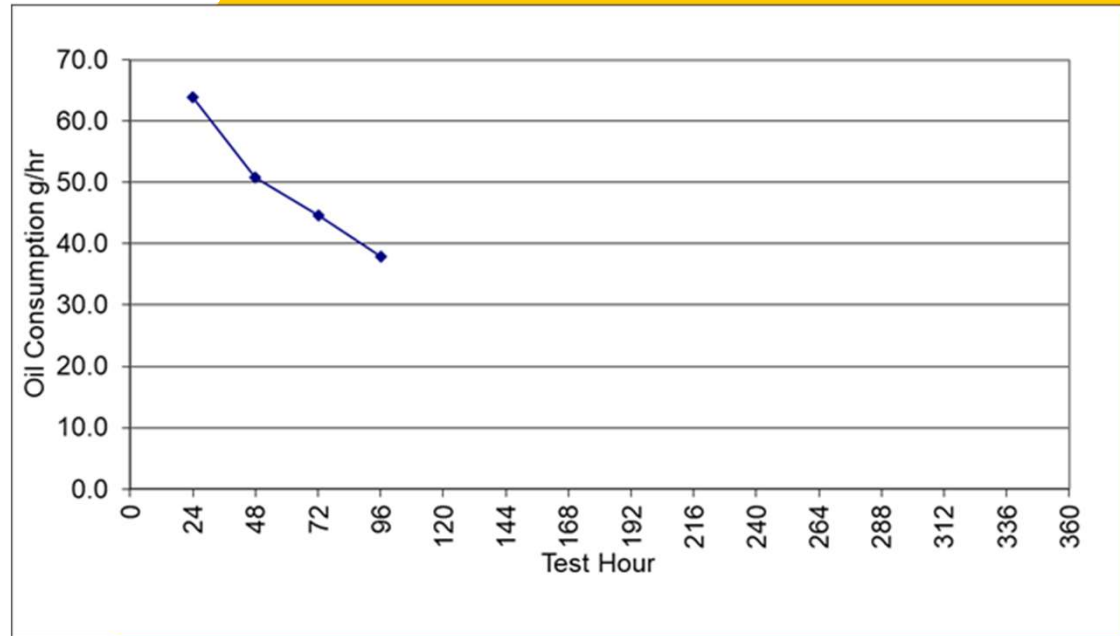
T13 OIL CONSUMPTION TESTING
INTERTEK AUTOMOTIVE RESEARCH
GARRETT WHITE

3/5/2024



EXPERIMENT RESULTS AND STEPS

- Run 1
 - 96-hour shakedown with 823-1 completed on kit 939
 - Average OC = 44.4 g/ hr
- Run 2, Next Step
 - Conduct 96-hour shakedown with 823-1 with ring sets from kit 866
 - Kit 866 from recent reference on 823-1
 - 48-192 hour average oil consumption 25.3 g/hr
 - Run 2 start today or tomorrow
 - IF, OC < 30 g/hr, Ring issue
 - IF OC > 30 g/hr, Piston issue



	Run 1	Run 2
Pistons	939	939
Rings	939	866
Liners	939	939
OC Avg. (g/hr)	44.4	-

KIT 939 TEI KIT INFORMATION



Liners			Pistons			Top Ring		
939- Original Hardware	1	21334768 050322 09 0311 44809 E3224	1	21170742 1105875 69 8223 000 02	1	000 1017729		
	2	21334768 050322 10 0311 44809 E3224	2	21170742 1105875 69 8223 000 02	2	000 1017729		
	3	21334768 050322 08 0311 44809 E3224	3	21170742 1105875 69 8223 000 02	3	000 1017729		
	4	21334768 050322 09 0311 44809 E3224	4	21170742 1105875 69 8223 000 02	4	000 1017729		
	5	21334768 050322 08 0311 44809 E3224	5	21170742 1105875 69 8223 000 02	5	000 1017729		
	6	21334768 050322 08 0311 44809 E3224	6	21170742 1105875 69 8223 000 02	6	000 1017729		

2nd Ring		Oil Ring	
1	000 1020839	1	0000 959071
2	000 1020839	2	0000 959071
3	000 1020839	3	0000 950338
4	000 1020839	4	0000 974707
5	000 1020839	5	0000 950338
6	0000 998891	6	0000 959071

- All liners are Batch D
- Kit chosen due to consistencies in pistons and ring sets

Mahle Piston Date Codes	
Cyl. No.	Date Code
1	0123 1218
2	0123 1304
3	0123 1305
4	0123 1322
5	0123 1302
6	0123 1302

KIT 866 TEI KIT INFORMATION

Liners		Pistons		Top Ring		
866 - Used Reference	1	Batch C	1	21170742 1104234 69 8223 000 02	1	0000 934711
	2	Batch C	2	21170742 1104234 69 8223 000 02	2	0000 914893
	3	Batch C	3	21170742 1104234 69 8223 000 02	3	0000 934730
	4	Batch C	4	21170742 1104234 69 8223 000 02	4	0000 934711
	5	Batch C	5	21170742 1104234 69 8223 000 02	5	0000 934730
	6	Batch C	6	21170742 1104234 69 8223 000 02	6	0000 903045

2nd Ring		Oil Ring	
1	0000 897134	1	0000 945960
2	0000 909581	2	0000 900345
3	0000 934780	3	0000 930881
4	0000 934780	4	0000 930881
5	0000 934780	5	0000 930881
6	0000 934780	6	0000 930881

- Recent reference on oil 823-1
- 48-192 hour average oil consumption = 25.3 g/hr

Mahle Piston Date Codes

Cyl. No.	Date Code
1	0822 1829
2	0822 1814
3	0822 0316
4	0822 0043
5	0822 1859
6	0822 1814

The Intertek logo is centered on a yellow background with a pattern of thin, parallel diagonal lines. The word "intertek" is written in a lowercase, bold, sans-serif font. The letter 'i' has a small white dot above it. The letters are black and have a slightly rounded, modern appearance.

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