

Engine Combustion Report Enterprise Coatings, Inc MOL-C

Unit Name: MOL-C
Location:

Model: 3616
Unit Mfr: Caterpillar

Date: 11/10/2014 10:53:34 AM
Serial No.:

Stroke: 4 Marker Correction Angle: 0.0 deg. Engine runs counter clockwise and is Vee - Regular Periods Collected (PT): 16

Cyl	Engine Speed, rpm		1016 Hours, hrs				45245									
	Speed (rpm)	MEP (psi)	IHP (ihp)	Comp. Ref 20 BTDC	Comb. Start (deg ATDC)	Max Rise Rate (psi/deg)	Peak Firing Pressures					PFP Angle ATDC	Exp. Ref 75 ATDC (psig)	Exp. Term 150 ATDC	Exhaust Temp.	
							AVE (psig)	STDDEV (psi)	MAX (psig)	MIN (psig)	DELTA (psi)					
1	1016	368	529	LO 939	N.A	61.1	2296	21	2325	2245	41	10	HI 449	HI 169	HI 452 C	
2	1016	315	453	1023	N.A	62.0	2203	9	2212	2184	-52	7	418	157	397 C	
3	1015	337	484	1049	N.A	58.4	2287	15	2310	2259	32	9	415	160	405 C	
4	1016	314	451	1045	N.A	61.5	2201	9	2221	2185	-53	6	415	161	LO 384 C	
5	1016	325	467	HI 1075	N.A	58.4	2302	14	2326	2275	48	9	LO 410	157	405 C	
6	1016	313	450	1026	N.A	60.7	2188	11	2205	2162	-66	7	LO 410	157	400 C	
7	1016	335	482	1032	N.A	60.8	2331	17	2363	2307	77	9	423	157	423 C	
8	1017	331	477	HI 1075	N.A	60.0	2245	15	2264	2210	-10	8	418	162	421 C	
9	1016	346	498	1052	N.A	59.8	2283	10	2298	2265	28	9	422	163	429 C	
10	1016	320	461	1012	N.A	60.9	2209	10	2223	2193	-45	6	417	157	395 C	
11	1017	340	489	1001	N.A	58.8	2262	12	2282	2242	8	9	415	LO 156	418 C	
12	1015	333	479	1000	N.A	58.8	2225	10	2243	2210	-29	8	425	158	400 C	
13	1017	353	508	978	-3	58.6	2310	15	2339	2288	56	10	428	162	404 C	
14	1016	319	459	1043	N.A	62.1	2237	11	2258	2221	-17	7	415	158	404 C	
15	1016	338	486	1059	N.A	59.4	2306	17	2336	2276	52	8	427	164	449 C	
16	1016	317	456	1040	N.A	61.4	2184	8	2209	2175	-70	6	413	160	426 C	
Eng:	1016	331	7630	1028	-3	60	2254	13			43	8	420	160	413.3 C	
Sprd:	0%	17%	17%	13%	0 deg	6%	7%	101%				4 deg	9%	8%	68.0 C	

- Notes:
1. The peak firing pressure (PFP) is the highest pressure in the cylinder during the cycle.
 2. PFP statistics are based on up to 50 cycles.
 3. PFP Angle data is derived from: a) Up to 50 cycles for EPD data; or b) Up to 10 cycles for PT3 data.
 4. Marker Type: Once Per Turn (OPT) and Trap Type: 9260.
 5. Pressure trace units are psig. You can change the column title in the geometry editor.
 6. For cylinders with no PT Data, IHP is assigned the average Engine IHP.

Analyst Signature:

11/11/2014 2:04:37 PM