



XCP[®] TECHNOLOGY Octane Analyzer (OA)

Next Generation of XCP[®] Automation

CFR Engines Inc. (CFR[®]) has extended the capabilities of its well-received XCP TECHNOLOGY Digital Octane Panel by now offering users an updated version of the fully automated Octane Analyzer (OA) option that significantly reduces operator involvement.

Compliance

The Octane Analyzer upgrade option provides capability to test all four procedures of the current ASTM Methods:

D2699 – Research Octane Number
D2700 – Motor Octane Number

Efficiency

Adding automation to your octane testing delivers the benefits of faster test results, and thus, more time to manage additional responsibilities within the lab.

Accuracy

The octane Analyzer reduces operator interaction with the instrument during the test procedure, provides improved consistency across multiple users, and better repeatability on consecutive passes.

Flexibility

Customize Octane testing to your operation. Easily switch between RON or MON, single pass or multiple pass, with manual procedures (EQ, CR, FL) or Octane Analyzer.

Requirements

- XCP operating on Windows 7 or current
- Sample cooling for unknowns
- Standard unit maintenance

- Automatically complete full 2-pass tests – setup test, fill fuel reservoirs, hit start and then wait for the report
- Allows for broader Octane Number ranges compliant with Procedure D
- No manual intervention – XCP TECHNOLOGY with Octane Analyzer option does all fuel switching, fuel / air adjustments, and data recording
- Reduced time for completing passes – approximately 10 minutes for single pass, 20 minutes for a full octane determination (2-pass)
- Reduced fuel consumption – approximately 100 mL for each fuel (sample and two primaries)



Fully Integrated Solutions by CFR®

The Octane Analyzer (OA) upgrade option by CFR builds upon the proven performance of the XCP control system. Like all CFR Engines Inc. products, the Octane Analyzer is designed to easily integrate with existing CFR units and systems.

Whether you are working with a complete unit, an upgrade / conversion kit, or a genuine CFR service part, you can trust that the product has been designed, manufactured and fully tested to work as an integrated and reliable solution for your operation.

The OA option is offered in three main configurations – an add-on upgrade kit for existing XCP, included in complete XCP with OA upgrade kits, or supplied as an addition to a new CFR unit. Additionally, adding Octane Analyzer to an XCP system enables specific OA testing capabilities already built into the XCP TECHNOLOGY platform.



Configurations

Add-on service part:

p/n: G-802-53 – OA with XCP conversion kit

p/n: G-802-54 – OA only upgrade kit

Report Accountability

- Fully Integrated
- Method Compliant Results
- Consistent Format
- LIMS Connectivity
- Complete Data Collection
- Automatic Curve Generation
- Test Event Logging

CFR REPORT SUMMARY									
DATE	10-12-2018	METHOD	RON	CYLINDER HEIGHT	INCHES	DIGITAL COUNTER			
SAMPLE	93.4 p3	PROCEDURE	Auto Dy	COMPENSATED	0.44617	798			
Low PRF ON	93	OPERATOR	Ravi	UNCOMPENSATED	0.461331	776			
High PRF ON	95	TIME	12:02:35	BAROMETER	29.13	98.65			
ACTUAL ON RESULTS		ROUNDED ON RESULTS							
SAMPLE ON PASS1	93.18	93.2							
SAMPLE ON PASS2	93.2	93.2							
SAMPLE ON PASS3	93.3	93.3							
AVERAGE PASS 1&2	93.19	93.2							
AVERAGE PASS 2&3	93.25	93.3							
ON DIFF PASS 2-1		0.0							
ON DIFF PASS 3-2		0.1							
Pass 1									
TIME	Reference	Fuel	Max KI Level	Max KI	IAT SP	IAT ACTUAL	ON RESULT		
12:02:35	Unknown	93.4 p3	494	64.4	113	112.92			
12:07:06	Ref Fuel ON (PRF)	93	586	65.5	113	113.07	93.18		
12:11:37	High Fuel ON (PRF)	95	583	53.6	113	112.75			
OIL PRESSURE PSI	CC VACUUM IN H2O	OIL T SP	OIL T ACTUAL	WATER TEMP	CONDENSER TEMP	MIX T SP	MIX T ACTUAL		
28.42	-1.88	130.1	130.24	208.58	84.73	0			
27.64	-2.09	130.1	130.66	208.59	85.09	0			
29.19	-2.06	130.1	129.82	208.66	84.24	0			
Pass 2									
TIME	0	0	Max KI Level	Max KI	IAT SP	IAT ACTUAL	ON RESULT		
12:16:45	Unknown	93.4 p3	497	64.6	113	112.74			
12:21:16	High Fuel ON (PRF)	95	585	53.8	113	113.15	93.2		
12:25:46	Ref Fuel ON (PRF)	93	583	65.8	113	113.01			
OIL PRESSURE PSI	CC VACUUM IN H2O	OIL T SP	OIL T ACTUAL	WATER TEMP	CONDENSER TEMP	MIX T SP	MIX T ACTUAL		
28.29	-2.06	130.1	130.2	208.6	82.9	0	0		
28.16	-2.06	130.1	130.7	208.52	83.69	0	0		
27.91	-2.02	130.1	130.02	208.61	83.99	0	0		
Pass 3									
TIME	0	0	Max KI Level	Max KI	IAT SP	IAT ACTUAL	ON RESULT		
12:30:54	Unknown	93.4 p3	501	64.3	113	112.96			
12:35:25	Ref Fuel ON (PRF)	93	587	66.2	113	112.9	93.3		
12:39:55	High Fuel ON (PRF)	95	592	53.6	113	113.06			
OIL PRESSURE PSI	CC VACUUM IN H2O	OIL T SP	OIL T ACTUAL	WATER TEMP	CONDENSER TEMP	MIX T SP	MIX T ACTUAL		
28.16	-2.16	130.1	130.1	208.56	82.98	0	0		
27.77	-2.02	130.1	130.78	208.56	83.69	0	0		
28.16	-2.06	130.1	130.17	208.61	83.86	0	0		

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