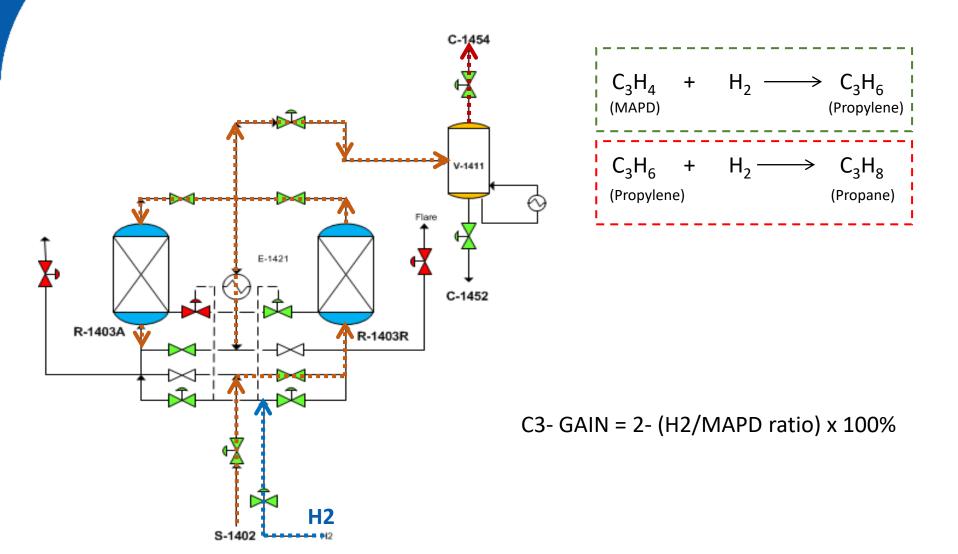


Optimize selectivity of MAPD convertor No.2 (R-1403) #27977

Kankamol B.

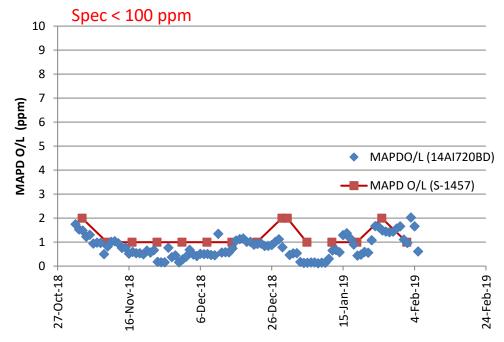
Simplify diagram MAPD Convertor NO.2





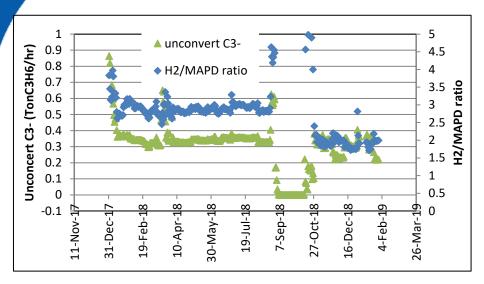
Summary Detail

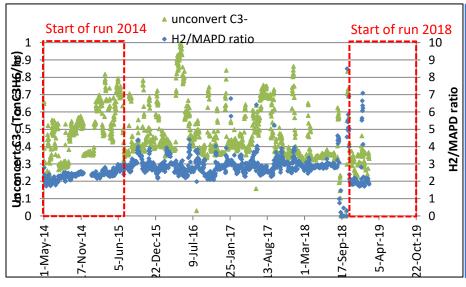
- To increase average selectivity by carefully reducing hydrogen partial pressure.
- As a result of MAPD O/L is very low, AXENS recommend to increase MAPD
 O/L from 1 ppm to 30 ppm (Spec < 100 ppm) and closely monitor MAPD in
 C3- product.

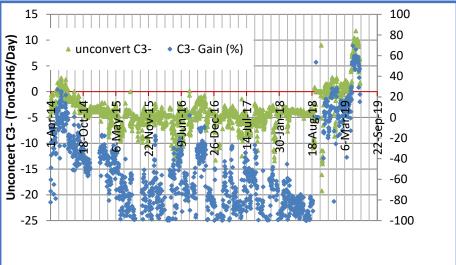




Baseline collection









Benefit calculation

C3- price		938\$/Ton	From price set Max infinity
C3/LPG price		500\$/Ton	From price set Max infinity
Exchange rate		31.5THB/\$	From price set Max infinity
Page Line /1 March	14 21 4~ 2010)		
Base Line (1 March 14 - 31 Aug 2018)		2.04	
Base line H2/MAPD ratio		2.94	
Baseline C3- loss (unconvert C3-)		-4.31T/D	
Base lin3 C3- gain		-94.19%	
Propylene product	7+1	4.45T/H	
	6+2	6.95T/H	
	5+3	8.3T/H	
	4+3	8.47T/H	
Target			
Target H2/MAPD ratio		2.00	
Actual Monthly			
Mode 5+3		11days	
H2/MAPD ratio		1.46	
C3 Gain		53.68%	
C3 loss (unconvert C3-)		9.37T/D	(+ = Gain/ - = Loss)
C3- gain increase by reduce unconvert C3-		13.68T/D	, ,
Actual C3- product		8.44T/H	
		47,084.15 THB/D	
benefit		517,925.70 THB/mont	h
Mode 4+3		18days	
H2/MAPD ratio		1.89	
112/11/11 5 14110		= =	

Mode 4+3	18days
H2/MAPD ratio	1.89
C3 Gain	57.31%
C3 loss (unconvert C3-)	9.78T/D (+ = Gain/ - = Loss)
C3- gain increase by reduce unconvert C3-	14.09T/D
Actual C3- product	8.84T/H
	124,122.83 THB/D
benefit	2,234,210.93 THB
Total benefit	2,281,298.02 MTHB/Month

Thank You

