

RUBBING OF NAMEPLATE

PROJECT NAME	VOYAGEUR UPGRADER (VU)	ITEM NO.	205E-400
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SUNCOR ENERGY INC.			
SERVICE	COMPRESSOR DISCHARGE COOLER		
ITEM NO.	205E-400	CRN NO.	U5052.2
MANUF. SERIAL No.	DK2007-231	PRN NO.	2
PURCHASE ORDER No.	987-P0205-E-3-1AC	YEAR BUILT	2008
TUBE SURFACE AREA	6633.6 ft	EMPTY WEIGHT	93400 lb
RULES/CODE	ASME SEC. VIII DIV. 1 (2004ED) & 2006ADD. API 660 (7th ED) TEMA (8th) 1B		
CERTIFIED BY	DAEKYUNG MACHINERY & ENGINEERING CO. LTD.		
	SHELL SIDE	TUBE SIDE	
MIN. REQ'D DESIGN PRESS. (INT./EXT.)	375 / F.V. psig	290 / F.V. psig	
MIN. REQ'D DESIGN TEMP. (INT./EXT.)	650 / 400 °F	650 / 400 °F	
HYDRO. TEST PRESS. (FIELD/SHOP)	497 / 506 psig	387 / 396 psig	
M.A.W.P.	382 @ 650 psig @ F	297 @ 680 psig @ F	
M.A.E.P.	F.V. @ 400 psig @ F	F.V. @ 400 psig @ F	
M.D.M.T.	-20 AT 382/F.V.F @ psig	-20 AT 297/F.V.F @ psig	
DIFFERENTIAL DESIGN PRESSURE	- psig	- psig	
FLUID	HC VAPOR/LIQUID	COOLING WATER	
CORROSION ALLOWANCE	1/4 INCH	1/8 INCH	
SHELL THICKNESS (INCH)	15/16 INCH	3/4 INCH	
MATERIAL SPECIFICATION	SA516-70+N+S3	SA516-70+N	
RADIOGRAPHY (SHELL/HEAD)	FULL / FULL	SPOT / SEAMLESS	
POST WELD HEAT TREATED	YES	YES (ONLY FLOATING HEAD)	
TEMA TYPE / SIZE	H-AJ21S / I.D 58" x 288" L		

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u/h. 08
QM/DKME

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2 4 8 0
(National Board Serial Number)

CERTIFIED BY DAEKYUNG MACHINERY & ENGINEERING CO., LTD.
(NAME OF MANUFACTURER)

SHELL	TUBES
382 psig AT 650 °F	297 psig AT 650 °F
(MAX. ALLOWABLE WORKING PRESSURE)	
F.V psig AT 400 °F	F.V psig AT 400 °F
(MAX. ALLOWABLE EXTERNAL WORKING PRESSURE)	
(INT./EXT.)	(INT./EXT.)
-20 °F AT 382/F.V psig	-20 °F AT 297/F.V psig
(MIN. DESIGN METAL TEMPERATURE)	
DK2007-231 / 205E-400	
(MANUFACTURER'S SERIAL NUMBER/ITEM NO.)	
2008	
(YEAR BUILT)	

W
RT 1-S
RT 3-T
HT-S
PHT-T

SHELL SIDE : WET H2S (SOUR) SERVICE.

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[Signature] 11/14/08
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