

EMISSIONE n°	ESMPE300	CLIENTE	ENI REWIND SPA	INDIRIZZO	SITO DI PORTO TORRES							
Data/ora di prelievo : 24/08/2022 12:45												
Punto di prelievo conforme alla UNI EN 15259												
				(P o N)								
Distanza dai punti di fuoriuscita del punto di prelievo (m)		a monte		1,3		a valle	1,65	T amb (°C) :	33			
Diam(fuor1) (m)		Lato2(m):		Area Sez.(m2)		0,031	Flangia 1(m)	0,06	Flangia 2(m)			
Comp.gas secco		O <sub>2</sub> % :		20,9		CO <sub>2</sub> % :	0,1	N <sub>2</sub> % :	79,1			
Comp.gas umido		O <sub>2</sub> % :		20,7		CO <sub>2</sub> % :	0,0	H <sub>2</sub> O % :	0,6	N <sub>2</sub> % :	78,6	
Massa mol.media (Kg/mole) :				0,02877		Press. Atm (Pa) :		101390				
Densità del gas (Kg/m³) :				1,15806		R (J/Kmol) :		8,314		Fattore calibraz. tubo Pilot Device 1:		0,846

Numero minimo punti per piano : 1  
Numero minimo diametri di ispezione : 1

Solo prova di tenuta e stagnazione del Pilot :		P	(P o N) Esito prova stagnazione Pilot alla fine della misurazione :				P	(P o N)	
Test di ripetibilità in campo									
		1° Device			2° Device			Fattore calibraz. tubo Pilot Device 2 :	
							Vel. 1	Vel.2	Vel1-Vel2
Porto N°	T (K)	Pat	Pdin	T (K)	Pat	Pdin	m/s	m/s	m/s
1	303,2	-1	4,0				2,22		
2	303,0		3,5				2,08		
3	303,3		4,1				2,25		
4	303,2		4,2				2,28		
5	303,0		4,2				2,28		
Risultato	3,73	Criterio <= 5	Esito :	P	(P o N)	Densità durante ripetibilità :		1,15752	
Durata min :			5	Determinazione del vapore d'acqua (UNI EN 14790)					
P assoluta :	101389	Pa	Controllo perdite		Esito :	P	(P o N)		
Temperatura media :	303,0	K	Pesata iniziale condensatore :			1033,2	g		
Velocità media :	2,24	m/s	Pesata finale condensatore :			1033,9	g		
Portata :	253	m³/h umidi	Pesata iniziale Gel di silice :			1005,4	g		
	229	Nm³/h umidi	Pesata finale Gel di silice :			1005,4	g		
	227	Nm³/h secchi	Peso totale :			0,7	g		
		Nm³/h secchi	Cont. Iniziale m³ :			400,343	Ora inizio:	12,50	
riferiti al		% di O₂	Cont. Finale m³ :			400,493	Durata min:	30	
Wall Effect =	0,995			Vol. Campion. Nm³:		0,135	% H2O		
				T Contatore (K) :		304,5	0,6		

Punto	Alfordam.	T (K)	Pat (Pa)	Pdin 1 (Pa)	Pdin 2 (Pa)	Pdin 3(Pa)	Media Pdin	Vel. (m/s)	
1	0,1	303,0	-1	4,1			4,1	2,25	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Misuratori pressione (dR e statici):				4406	Bilancia:			12671+12672	
Barometro:				4406	Pompa per misurazione Acqua:			12609	
Meteo:				12610	Analizzatore Gas:			8029	
Termometro:				4406					
Tubo di Pico:				12926					
Attività di campionamento sotto la responsabilità di:									
LabAnalysis srl Via Europa, 5 27041 Casanova Lonati (PV)				X	CAVALIERI LAI				
LaserLab srl Via Bolzano, 6P 66029 San Giovanni Telesino (CH)									



EMISSIONE n°	ESMPE300	CLIENTE	ENI REWIND SPA	INDIRIZZO	SITO DI PORTO TORRES
Data/ora di prelievo :	24/08/2022 13:50				
Punto di prelievo conforme alla UNI EN 15259			(P o N)		
Distanza dai punti di fuoriuscita del punto di prelievo (m)		a monte	1,3	a valle	1,65
Diam.fato1 (m)	0,20	Lato2(m):	0,031	Flangia 1(m)	0,06
Comp.gas secco	O <sub>2</sub> % :	20,9	CO <sub>2</sub> % :	0,1	N <sub>2</sub> % :
Comp.gas umido	O <sub>2</sub> % :	20,7	CO <sub>2</sub> % :	0,0	N <sub>2</sub> % :
Massa mol.media (Kg/mole) :	0,02876	Press. Atm (Pa) :	101390		
Densità del gas (Kg/m³) :	1,15686	R (J/Kmol) :	8,314	Fattore calibraz. tubo Pilot Device 1:	0,846

Numero minimo punti per piano : 1  
Numero minimo diametri di ispezione : 1

Solo prova di tenuta e stagnazione del Pilot :										P	(P o N) Esito prova stagnazione Pilot alla fine della misurazione :	P	(P o N)
Test di ripetibilità in campo										Fattore calibraz. tubo Pilot Device 2 :			
	1° Device				2° Device				Vel. 1	Vel.2	Vel.1-Vel.2		
Punto N°	T (K)	Pst	Pdin	T (K)	Pst	Pdin	m/s	m/s	m/s				
1	303,2	-1	4,0				2,22						
2	303,0		3,5				2,08						
3	303,3		4,1				2,25						
4	303,2		4,2				2,28						
5	303,0		4,2				2,28						
Risultato		3,73	Criterio <= 5	Esito :		P	(P o N)	Densità durante ripetibilità :		1,15709			
Durata min :				5	Determinazione del vapore d'acqua (UNI EN 14790)								
P assoluta :		101389	Pa	Controllo perdite			Esito :	P	(P o N)				
Temperatura media :		303,2	K	Pesata iniziale condensatore :				1033,9	g				
Velocità media :		2,27	m/s	Pesata finale condensatore :				1034,6	g				
Portata :		257	m³/h umidi	Pesata iniziale Gel di silice :				1005,4	g				
		231	Nm³/h umidi	Pesata finale Gel di silice :				1005,5	g				
		230	Nm³/h secchi	Peso totale :				0,8	g				
			Nm³/h secchi										
		riferiti al	% di O <sub>2</sub>	Cont. Iniziale m³ :		400,493	Ora inizio:	13,55					
				Cont. Finale m³ :		400,643	Durata min:	30					
Wall Effect =		0,995		Vol. Campion. Nm³:		0,135	% H <sub>2</sub> O						
				T Contatore (K) :		304,8							

Punto	Alfordam.	T (K)	Pst (Pa)	Pdin 1 (Pa)	Pdin 2 (Pa)	Pdin 3(Pa)	Media Pdin	Vel. (m/s)	
1	0,1	303,2	-1	4,2			4,2	2,28	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Misuratori pressione (dR e statici):		4406	Bianca:	12671+12672					
Barometro:		4406	Pompa per misurazione Acqua:	12609					
Meteo:		12610	Analizzatore Gas:	8029					
Termometro:		4406							
Tubo di Pilot		12936							
Attività di campionamento sotto la responsabilità di:									
LabAnalysis srl Via Europa, 5 37041 Casanova Lonati (PV)		X	L'Operatore	CAVALIERI LAI					
LaserLab srl Via Bolzano, 6P 66029 San Giovanni Telesino (CH)			L'Operatore						

CAVALLIERE-LAT		SITO DI PORTO TORMES – Emulsione EMPE200 – Impianto Estrazione Rami generati da emulsione HP2 300 – Project: EXPROJECT-12-027088 – Test_ID: EV-02-027088-111115																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Ingrandimenti	MATR. A	FUEL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL		OIL	

EMISSIONE n°	ESMPE300	CLIENTE	ENI REWIND SPA	INDIRIZZO	SITO DI PORTO TORRES
Data/ora di prelievo :	24/08/2022 14:55				
Punto di prelievo conforme alla UNI EN 15259			(P o N)		
Distanza dai punti di fuoriuscita del punto di prelievo (m)			a monte 1,3	a valle 1,65	T amb (°C) : 33
Diam.fato1 (m)	0,20	Lato2(m):	Area Sez.(m2) 0,031	Flangia 1(m) 0,06	Flangia 2(m)
Comp.gas secco	O <sub>2</sub> % : 20,9	CO <sub>2</sub> % : 0,1	N <sub>2</sub> % : 79,1		
Comp.gas umido	O <sub>2</sub> % : 20,7	CO <sub>2</sub> % : 0,0	H <sub>2</sub> O % : 0,5	N <sub>2</sub> % : 78,7	
Massa mol.media (Kg/mole) :	0,02878	Press. Atm (Pa) :	101400		
Densità del gas (Kg/m³) :	1,15702	R (J/Kmol) :	8,314	Fattore calibraz. tubo Pilot Device 1:	0,846

Numero minimo punti per piano : 1  
Numero minimo diametri di ispezione : 1

Prova di tenuta e stagnazione del Pilot :		P	(P o N) Esito prova stagnazione Pilot alla fine della misurazione :				P	(P o N)	
Test di ripetibilità in campo									
1° Device					2° Device		Fattore calibraz. tubo Pilot Device 2 :		
						Vel. 1	Vel.2	Vel.1-Vel.2	
Porto N°	T (K)	Pat	Pdin	T (K)	Pat	Pdin	m/s	m/s	
1	303,2	-1	4,0				2,22		
2	303,0		3,5				2,08		
3	303,3		4,1				2,25		
4	303,2		4,2				2,28		
5	303,0		4,2				2,28		
Risultato	3,73	Criterio <= 5	Esito :	P	(P o N)	Densità durante ripetibilità :		1,15801	
Durata min :			5	Determinazione del vapore d'acqua (UNI EN 14790)					
P assoluta :	101399	Pa	Controllo perdite		Esito :	P	(P o N)		
Temperatura media :	303,4	K	Pesata iniziale condensatore :			1034,6	g		
Velocità media :	2,24	m/s	Pesata finale condensatore :			1035,1	g		
Portata :	253	m³/h umidi	Pesata iniziale Gel di silice :			1005,5	g		
	228	Nm³/h umidi	Pesata finale Gel di silice :			1005,6	g		
	227	Nm³/h secchi	Peso totale :			0,6	g		
		Nm³/h secchi	Cont. Iniziale m³ :			400,643	Ora inizio:	15,00	
riferiti al		% di O₂	Cont. Finale m³ :			400,794	Durata min:	30	
Wall Effect =	0,995		Vol. Campion. Nm³:			0,135	% H₂O		
			T Contatore (K) :			305,2		0,5	

Punto	Alfordam.	T (K)	Pat (Pa)	Pdin 1 (Pa)	Pdin 2 (Pa)	Pdin 3(Pa)	Media Pdin	Vel. (m/s)	
1	0,1	303,4	-1	4,1			4,1	2,25	
2									
3									
4									
5									
6									
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17									
18									
19									
20									
Misuratori pressione (dR e statica):		4406	Bianca:				12671+12672		
Barometro:		4406	Pompa per misurazione Acqua:				12609		
Meteo:		12610	Analizzatore Gas:				8029		
Termometro:		4406							
Tubo di Pilot		12936							
Attività di campionamento sotto la responsabilità di:									
LabAnalysis srl Via Europa, 5 27041 Casanova Lonati (PV)		X	L'Operatore	CAVALIERI LAI					
LaserLab srl Via Bolzano, 6/P 66029 San Giovanni Telesino (CH)			L'Operatore						



							Controlli preliminari (senza linea di campionamento)		Verifica iniziale linea di campionamento				Verifica quotidiana linea di campionamento			Verifica quotidiana linea di campionamento			Verifica quotidiana linea di campionamento			Verifica quotidiana linea di campionamento			Verifica quotidiana linea di campionamento			Verifica Finale linea di campionamento						
							Data/ora Tamb patm		24/08/2022 08:08 °C Pa 101.300		Data/ora Tamb patm		°C Pa		Data/ora Tamb patm		°C Pa		Data/ora Tamb patm		°C Pa		Data/ora Tamb patm		°C Pa		Data/ora Tamb patm		24/08/2022 17:08 °C Pa 101420					
							Letture di Zero dopo correzione		Drift Max		Zero		Span		Drift Max		Zero		Span		Drift Max		Zero		Span		Drift Max		Zero		Span		Drift Max	
Gas Misurato							0,01		0,04		0,03		22,45		0,451														0,01		22,45		0,451	
OSSIGENO-R							0,02		0,40		0,03		15,77		0,3168														0,03		15,74		0,3168	
BIOSSIDODICARBONIO-R																																		