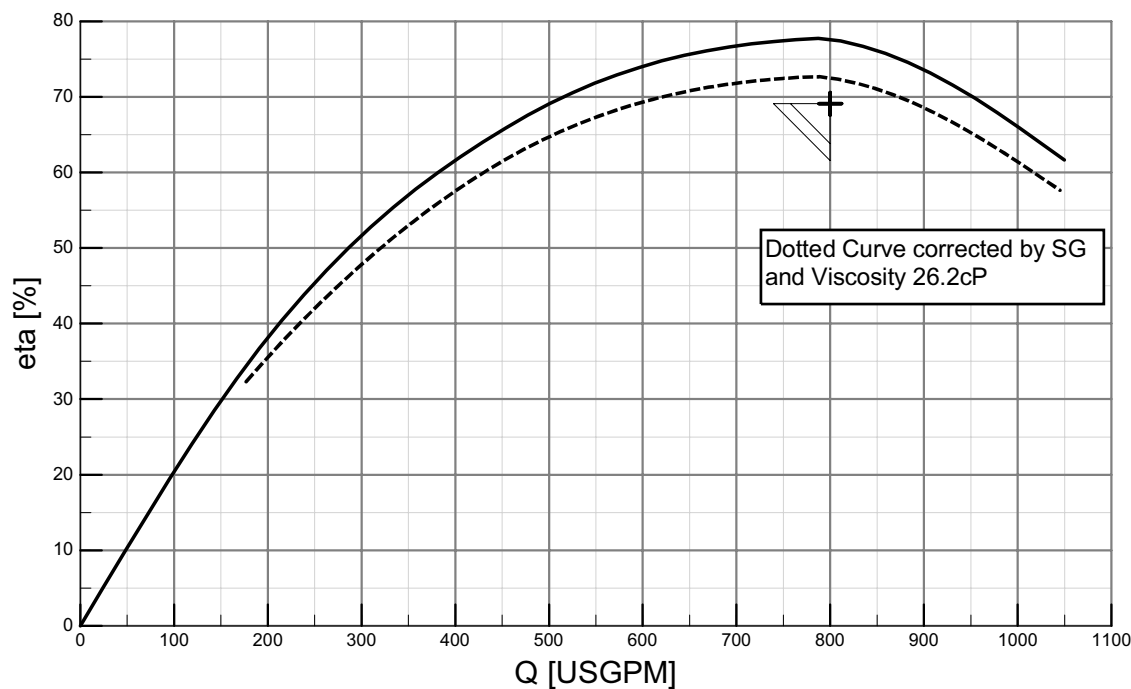
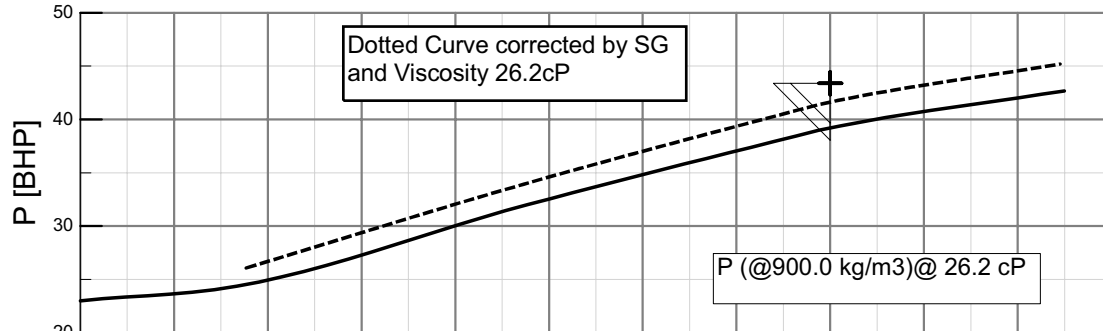
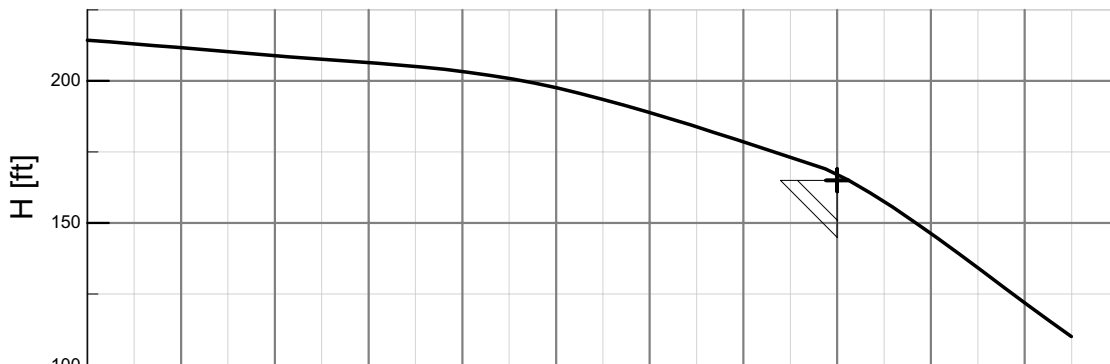


	Tipo: 4x6x7.5A-1 OHH Type: Item Cliente No.: 18-P-1807 Client's Item No.: Cliente/Destino: World Energy Paramount LLC Client/Destination:		No. de Orden: 100456493-0020 Order No.: No. de Serie: 649500 Sulzer Serial. No.: Curva de prueba: M-13393 Test Curve:	
	Reporte de prueba 191/22 Test Report No.			
	Datos de punto de operación Data at guarantee point			
	Q_N 800.0 USGPM H_{TN} 165.0 ft P_N 43.4 BHP η_N 69.1 % ρ_N 0.9 SG n_N 3560 rpm $NPSH$ 18.5 ft T_{emp} 120.0 °F Drive / Motor: 1-ML-125 No./Nr.: 1-ML-125 1st gear drive / 1. Getriebe: 2st gear drive / 2. Getriebe:			
Tacometro Tachometer PEPPERL+FLUSCHS Nr. No.: 1-ML-158		Medidor de potencia Power measuring SIEMENS Nr. No.: 1-ML-156		
Medidor de flujo Pump capacity meter F & R 0-30 PSI CAP -103 L-1 Nr. No.: Venturi 4"		Medidor de Ps Inlet pressure meter Rosemount -14.2-150PSI Suct Loop3 Nr. No.: 1-ML-136 Medidor de Pd Outlet pressure meter Rosemount 0-284 PSI Disch Loop3 Nr. No.: 1-ML-06		
Sensor Temp. de liquido Temp.sensing test liquid FLUKE Nr. No.: TER-040				
Presión Barométrica: mean barometric press. 11,2697 p.s.i.				
No. De Pasos No. Stages 1 No. De Venas No. Vanes 5 Modelo Impulsor Impeller Pattern 413OHH-02		Dia.Maximo Impulsor Imp. Max Dia. 7.5 in Dia.Impulsor Prueba Imp. Test Dia. 7.17 in		

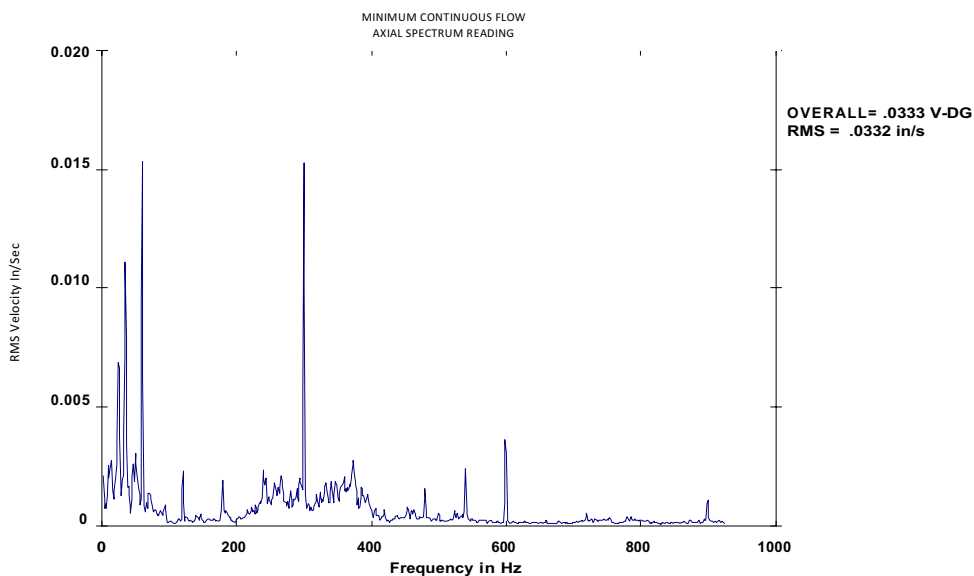
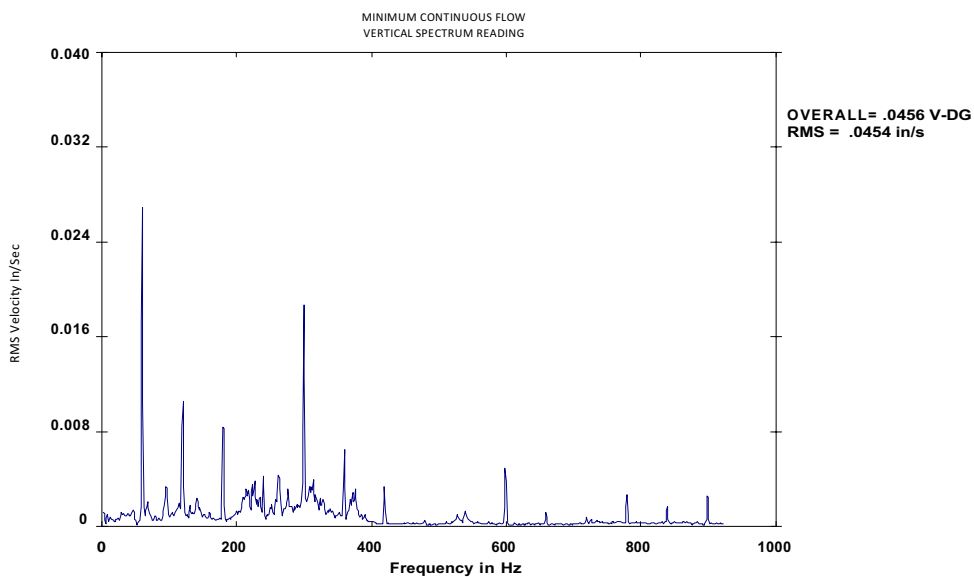
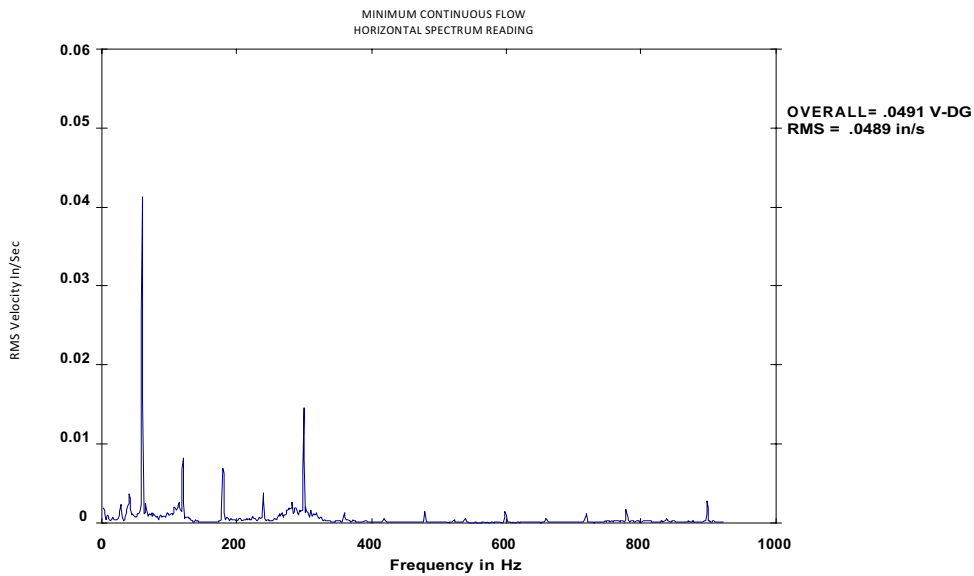
Measurement no.	Lecturas No.			1	2	3	4	5	6							
Motor speed	Velocidad de Motor	n_M	rpm	3589.9	3589.8	3592.6	3593.2	3593.8	3591.5							
Pump speed	Velocidad de Bomba	n_P	rpm	3589.9	3589.8	3592.6	3593.2	3593.8	3591.5							
Outlet pressure	Presión de Descarga	P_d	p.s.i.	68.37	96.04	97.85	111.42	117.80	118.38							
Inlet pressure	Presión de Succión	P_s	p.s.i.	24.8	25.9	25.3	25.3	26.7	25.2							
Seal chamber pressure	Presión cámara del sello	P_l	p.s.i.	30.53	42.41	42.69	48.42	52.53	51.21							
Velocity head difference	Hv Dif. de velocidades	$(v_d^2 - v_s^2)/2g$	ft	8.602	5.012	4.535	1.724	0.247	0.000							
Pressure head outlet	Presión de carga de salida	H_d	ft	158.20	222.19	226.36	257.73	272.47	273.94							
Pressure head inlet	Presión de carga de entrada	H_s	ft	57.31	59.92	58.44	58.57	61.76	58.33							
Pump head	Carga total	H	ft	111.99	169.77	174.96	203.38	213.46	218.11							
Pump capacity	Capacidad de la Bomba	Q	USGPM	1058.61	808.05	768.61	473.89	179.41	0.00							
Efficiency	Eficiencia	η	%	61.65	77.59	77.54	67.01	34.54	0.00							
Electric power	Potencia Electrica	P_{el}	BHP	51.47	47.49	46.62	38.93	30.23	28.28							
Motor efficiency	Eficiencia de motor	η_{Mot}	%	94.19	93.86	93.79	93.16	92.50	92.50							
Motor power output	Potencia de salida del Motor	P_{Mot}	BHP	48.48	44.58	43.72	36.27	27.96	26.16							
Pump input	P Entrada a la Bomba	P	BHP	48.48	44.58	43.72	36.27	27.96	26.16							
Values converted to n_N and 1 stages				Valores corregidos $n_N = 3560.0$												
Efficiency	Eficiencia	η	%	61.65	77.59	77.54	67.01	34.54	0.00							
Pump capacity	Capacidad de la Bomba	Q	USGPM	1049.78	801.34	761.64	469.50	177.72	0.00							
Pump head	Carga Din. Tot.	H	ft	110.13	166.96	171.80	199.64	209.46	214.30							
Pump input at p_N	P Entrada a Bomba p_N	P	BHP	42.69	39.25	38.41	31.83	24.53	23.01							
				VISCOSITY CORR. @ 26.2 cP												
Pump capacity	Capacidad de la Bomba	Q	USGPM	1049.78	801.34	761.64	469.50	177.72								
Pump head	Carga Din. Tot.	H	ft	110.13	166.96	171.80	199.64	209.46								
Efficiency	Eficiencia	η	%	57.64	72.54	72.50	62.65	32.29								
Pump input at p_N	P Entrada a Bomba p_N	P	BHP	45.19	41.60	40.71	33.79	26.08								

Probado por: Tested by: Fecha: Date 14.07.2022 Atestiguado por: Witnessed by: _____ Fecha: Date _____	Observaciones: Remarks: Temperatura de Soporte: Bearing temperature: 125.90 °F Brg Hsg DE RATED POINT
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SULZER		1er Paso 1st Stage	Series Series	No. Or 100456493-0020
Curva de prueba M-13393 Test Curve		Impulsor Impeller	D-15430	Sulzer Comm.Nr.
Cliente Customer	World Energy Paramount LLC	Modelo Pattern	413OHH-02	Tipo Type
Orden Compra	4505551383	Difusor Diffuser	EY-10097	4x6x7.5A-1 OHH
No. Identif. Ident No.	18-P-1807	Modelo Pattern	414OHH-01	
No. Serie. Item No.	649500	D2 Diseño. D2 design.	Ø7.17 in	Reporte No. Test Report No.
		Venas Vane	Ø7.17 in	191/22
Nombre Name	Gerardo Endoqui	D2 min. D2 min.	Ø5.50 in	Fecha dated
Fecha Date	2022-07-14	D2 max. D2 max.	Ø7.50 in	n= 3560 1/min. i= 1 Stufen Stages
				DN _s 6 in DN _d 4 in



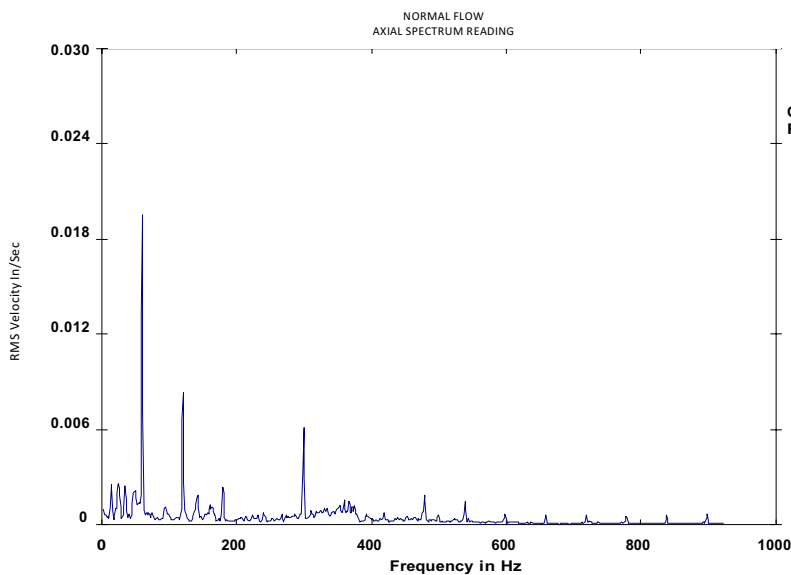
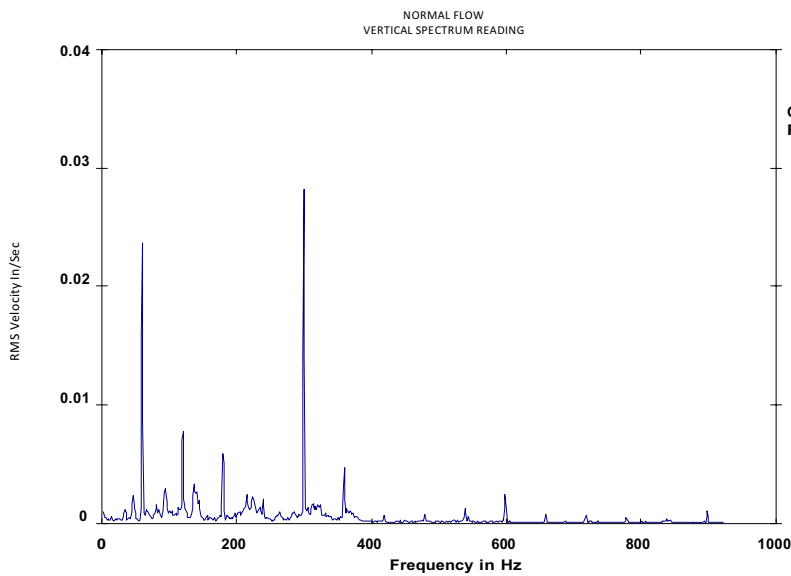
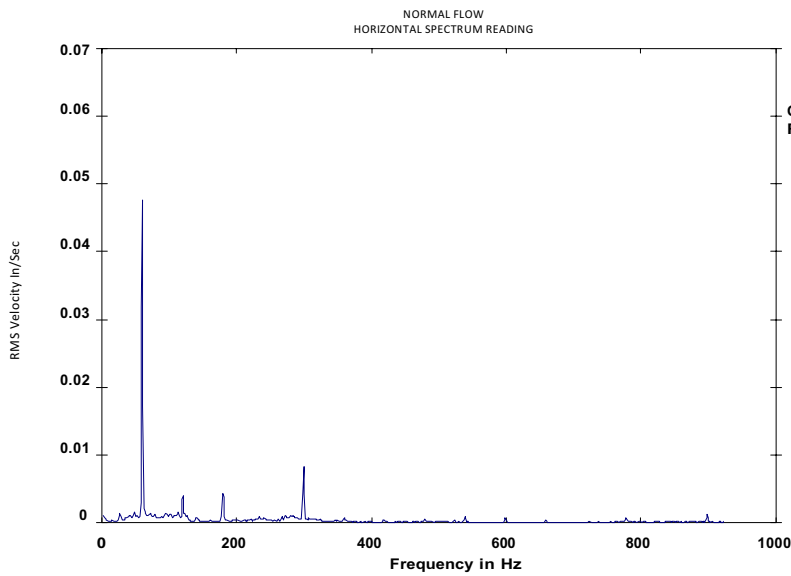
100456493-0020
4x6x7.5A-1 OHH
177.72 USGPM
3593 RPM



F-BP-004

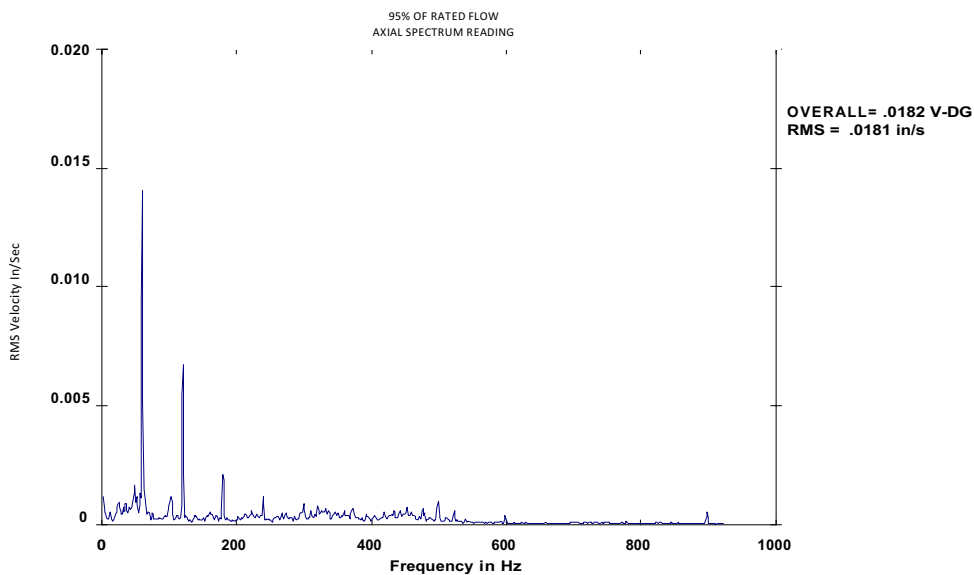
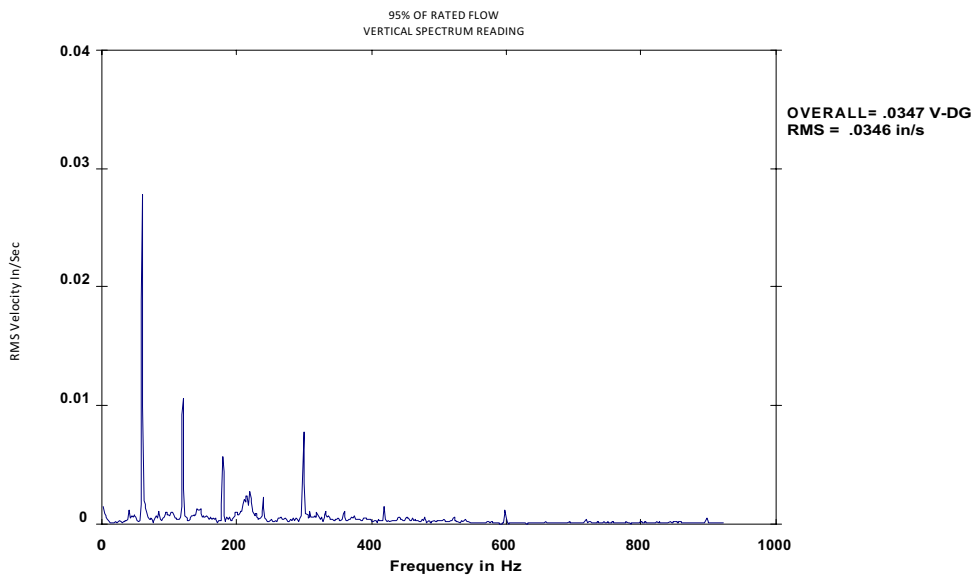
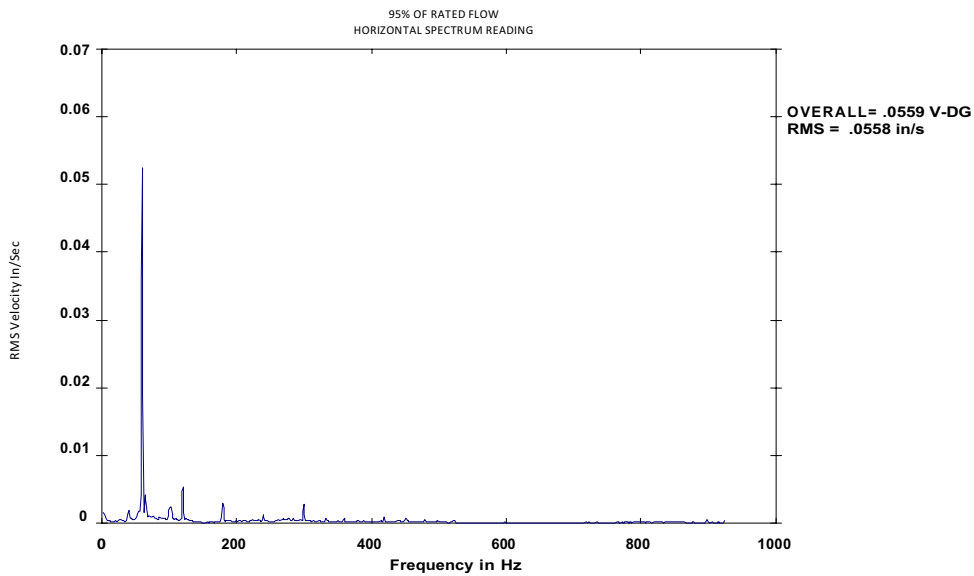
NORMAL FLOW

100456493-0020
4x6x7.5A-1 OHH
469.50 USGPM
3593 RPM



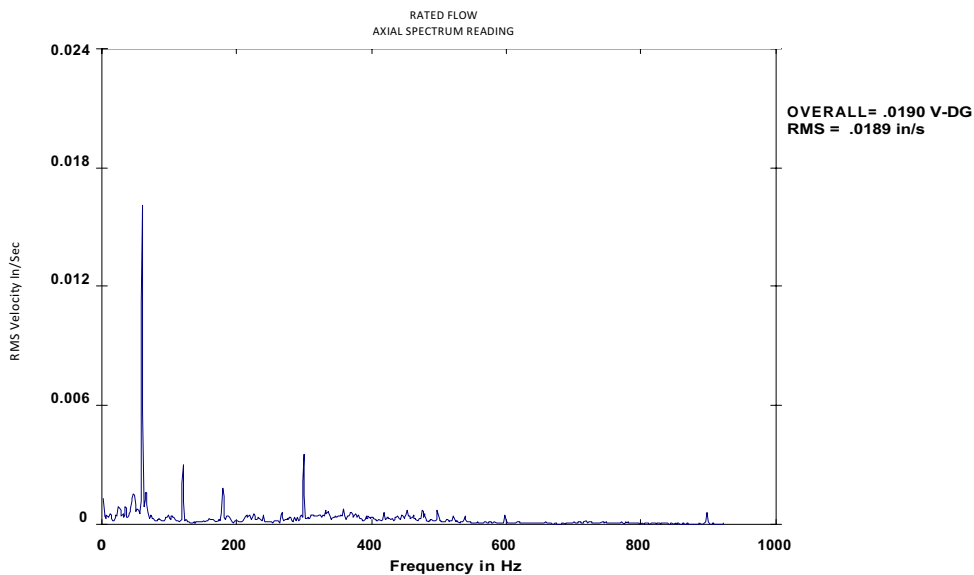
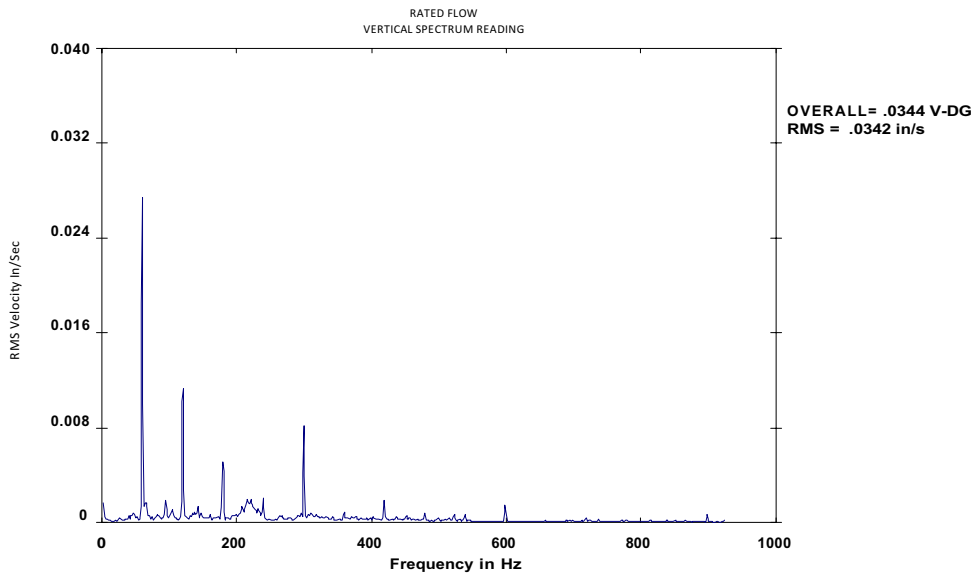
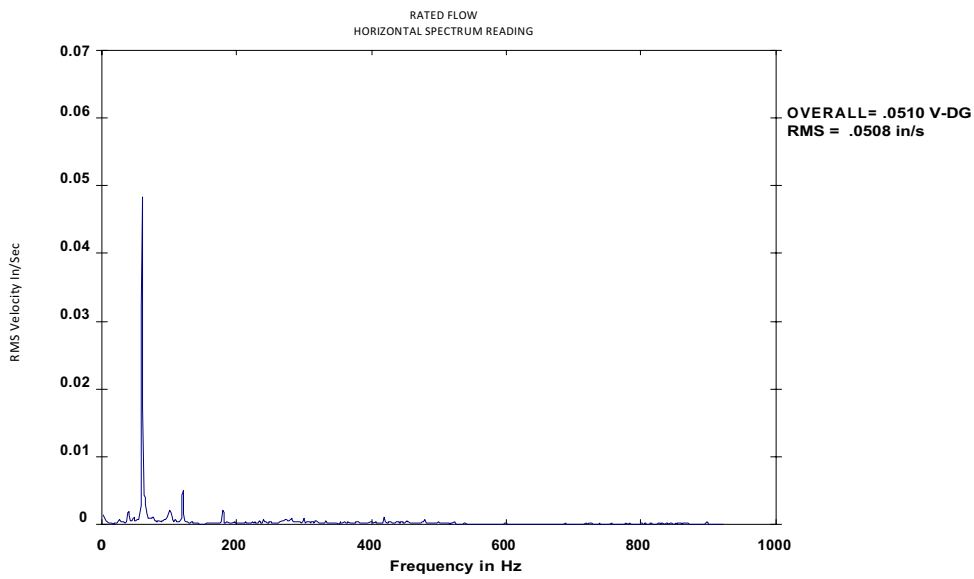
F-BP-004

100456493-0020
4x6x7.5A-1 OHH
761.64 USGPM
3592 RPM



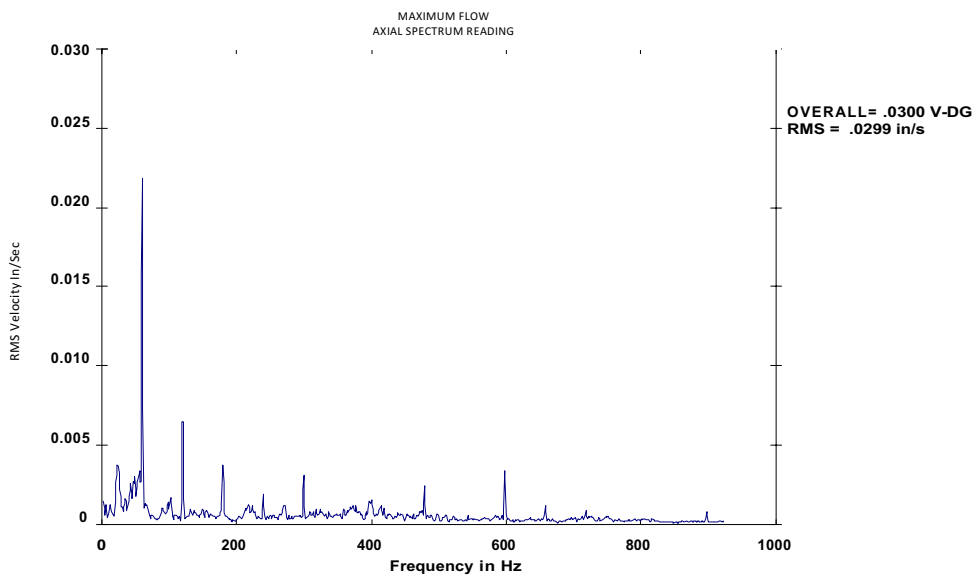
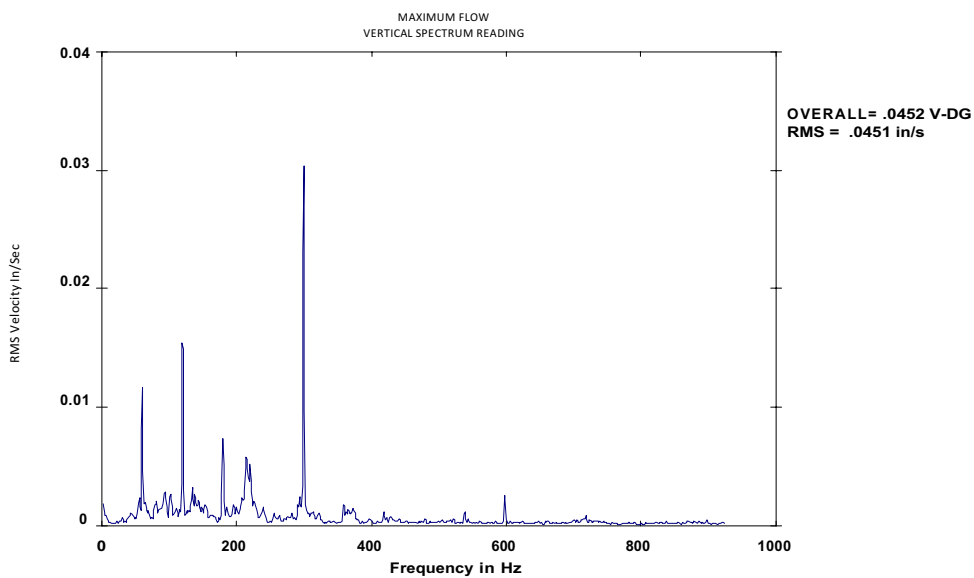
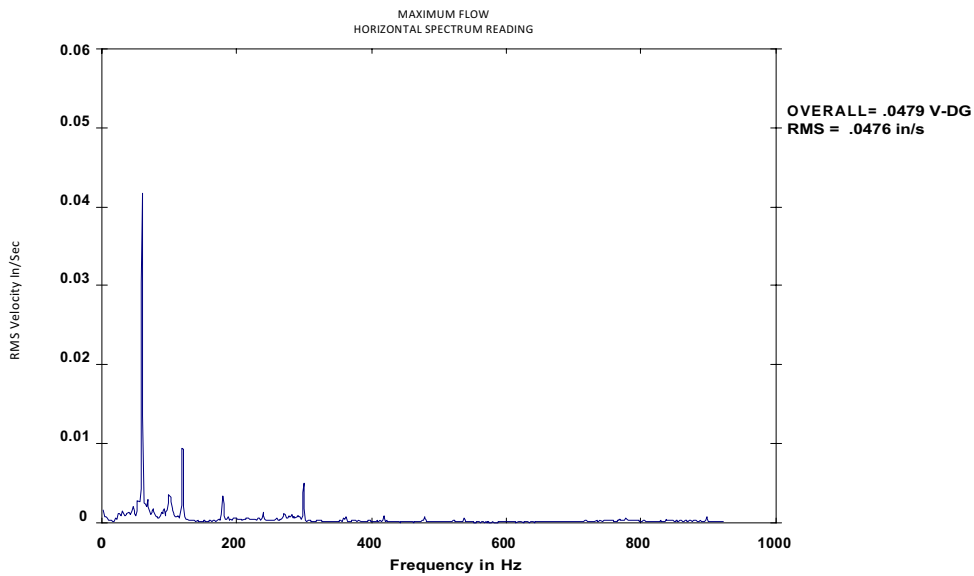
F-BP-004

100456493-0020
4x6x7.5A-1 OHH
801.34 USGPM
3589 RPM



F-BP-004

100456493-0020
4x6x7.5A-1 OHH
1049.78 USGPM
3589 RPM



F-BP-004



Tipo: 4x6x7.5A-1 OHH
Item Cliente No:
Client's Item No: 18-P-1807
Cliente/Destino:
Client/Destination: World Energy Paramount LLC

No. de Orden: 100456493-0020
Order No:
No. de Serie: 649500
Sulzer Serial. No.:
Curva No:
Curve No: M-13393

Reporte Prueba No.: 191/22
Test Report No.:

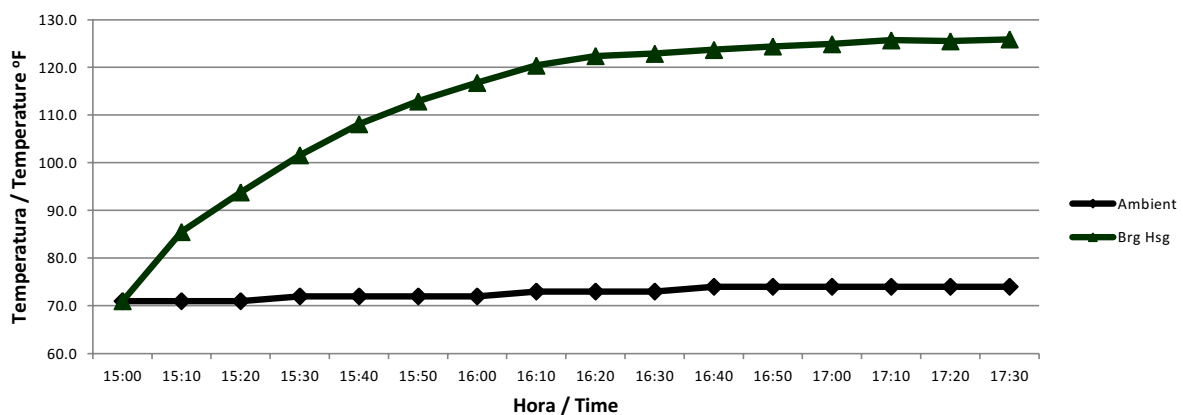
Puntos de medición de temperatura

Temperature Measuring Points

Hora: Time:	Ambiente	Soporte de Rodamiento
	Ambient	Bearing Housing
	°F	°F
15:00	71.0	71
15:10	71.0	85.5
15:20	71.0	93.8
15:30	72.0	101.6
15:40	72.0	108.1
15:50	72.0	112.9
16:00	72.0	116.8
16:10	73.0	120.4
16:20	73.0	122.4
16:30	73.0	122.9
16:40	74.0	123.7
16:50	74.0	124.4
17:00	74.0	124.9
17:10	74.0	125.7
17:20	74.0	125.5
17:30	74.0	125.9

TEMPERATURE
STABILIZATION

Puntos de medición de temperatura / Temperature Measuring Points



Probado por:
Tested by:
Fecha:
Date:

Gerardo End by:
Fecha:
Date:

Testificado
por:
Witnessed
Fecha:
Date:

F-BP-003