

## **TPC1650LN**

## Customer: PTRHTF40111

CODRICO ROTTERDAM B.V RYNHAVEN 2.2.15

ROTTERDAM, 3072AJ Netherlands

Attn: Wilbert Snijers

Tel:

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## System Information

System Volume: 3600 ltr

Bulk Operating Temp: 392F / 200C

Heating Source:

Blanket:

Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID

Make: WANSON

## Sample Information

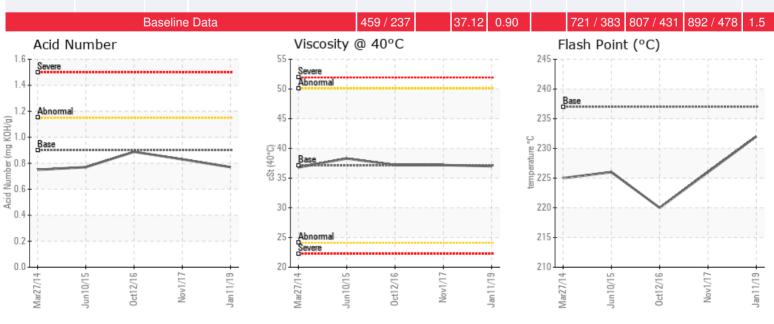
Lab No: 02263827

Analyst: Alexander Panov Sample Date: 01/11/19 Received Date: 01/22/19 Completed: 01/24/19

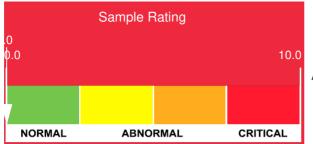
Recommendation: Fluid is in good conditions fully suitable for farther operation.

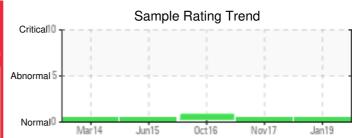
Comments:

Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Flash Point (COC) Water (KF)		Acid Number	Solids	GCD 10%	GCD 50%	%06 GCD	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/	%wt	°F/°C	°F/°C	°F/°C	%
01/11/19	01/22/19	0y		450 / 232	6.3	37.0	0.77	0.040	679 / 360	775 / 413	881 / 472	1.96
11/01/17	11/06/17	0y		439 / 226	9.4	37.2	0.830	0.032	737 / 392	807 / 431	902 / 484	0.00
10/12/16	10/24/16	Зу	PTRHTF40111	428 / 220	11.1	37.2	0.888	0.037	719 / 382	815 / 435	914 / 490	0.44
06/10/15	10/27/15	2y		439 / 226	0.00	38.3	0.77	0.039	719 / 382	811 / 433	910 / 488	0.46
03/27/14	04/07/14	1y		437 / 225	13.8	36.8	0.75	0.032	721 / 383	818 / 437	920 / 493	0.56
		Baseline	e Data	459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5



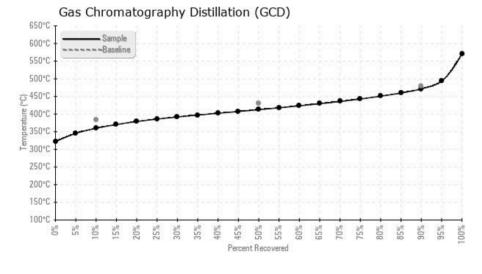


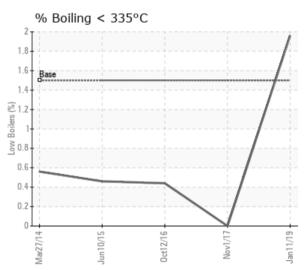




	Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
0	01/11/19	41	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	184	2
1	1/01/17	36	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	225	2
1	0/12/16	31	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	213	2
0	06/10/15	26	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	215	2
0	3/27/14	35	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	216	4
Base	eline Data			0	0						0			0	0					0				230	

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]





Historical Comments								
11/01/17	Results are normal, the fluid good for farther use.							
10/12/16	Oil appears to be in good condition and fit for further service. (GCD) 90% Distillation Point is marginally high.							
06/10/15	Oil appears to be in good condition and fit for further service. Sample at next scheduled maintenance interval.							
03/27/14	Oil appears to be in very good condition.Sample at next scheduled maintenance interval.							

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