



## [OLDCASTLE] 4604PLANT

Customer: PTRHTF10225	System Information	Sample Information
MINNESOTA PAVING 518 28 AVE S. WAITE PARK, MN 56387 USA Attn: Brian Heger Tel: (712)229-2082 E-Mail: brian.heger@minnnp.com	System Volume: 450 gal Bulk Operating Temp: 350F / 177C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: GENCORE	Lab No: 02329486 Analyst: Neil Buchanan Sample Date: 10/15/19 Received Date: 01/02/20 Completed: 01/08/20

Recommendation: Pentane insolubles are slightly higher than desirable but below the 0.5% limit. Suggest adding filtration to the system. Other properties are acceptable. Resample next regular interval.

Comments:

Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/15/19	01/02/20	1y		437 / 225	24.6	34.0	0.184	0.129	685 / 363	783 / 417	892 / 478	2.37
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00



