



**[14-8-55-22W4] 439-HO-001**

**Customer: PTRHTF20220**  
 McAsphalt Industries LTD  
 22423 Twp 552  
 Sturgeon County, AB T8L 5G4 Canada  
 Attn: Madison Myrfield  
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 E-Mail: mmyrfield@mcasphalt.com

**System Information**  
 System Volume: 15000 ltr  
 Bulk Operating Temp: 400F / 204C  
 Heating Source:  
 Blanket:  
 Fluid: PETRO CANADA PETRO-THERM  
 Make: HEATEC

**Sample Information**  
 Lab No: 02304590  
 Analyst: Behshad Sabah  
 Sample Date: 08/21/19  
 Received Date: 08/26/19  
 Completed: 09/10/19

Recommendation: High TAN and Mid Pentane Insolubles indicate a low oil oxidation. Low Iron PPM indicates low or no corrosion. please monitor the oil on annual bases.

Comments: Pentane Insolubles levels are severely high. Acid Number (AN) is severely high.

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	%
08/21/19	08/26/19	6y		450 / 232	71.0	34.5	0.852	0.585	700 / 371	798 / 426	899 / 482	3.41
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00



