



113-HO-001 MAIN TANK

Customer: PTRHTF30131	System Information	Sample Information
McAsphalt P.O. Box 32058 Thunder Bay, ON P7E 5R0 Canada Attn: John Kowalchuk Tel: (807)623-3836 E-Mail: jkowalchuk@mcasphalt.com	System Volume: 7000 ltr Bulk Operating Temp: 400F / 204C Heating Source: Blanket: Fluid: ESSO THERMOIL 32 Make: HEATEC	Lab No: 02297695 Analyst: Behshad Sabah Sample Date: 07/15/19 Received Date: 07/18/19 Completed: 07/30/19 Behshad Sabah behshad.sabah@petrocanadalsp.com

Recommendation: the oil is the mixture of Esso Teresstic 32 and Turmoil 32. high oxidation is noticed through the Pentane Insoluble and TAN. Sodium is either air born contamination and / or cross contamination of a cleaner.

Comments: Pentane Insolubles levels are severely high. Sodium ppm levels are severely high. (GCD) 90% Distillation Point is abnormally 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	%
07/15/19	07/18/19	15y		424 / 218	135.8	37.1	0.846	1.53	707 / 375	797 / 425	892 / 478	1.44
Baseline Data				399 / 204		32.45			705 / 374		858 / 459	



