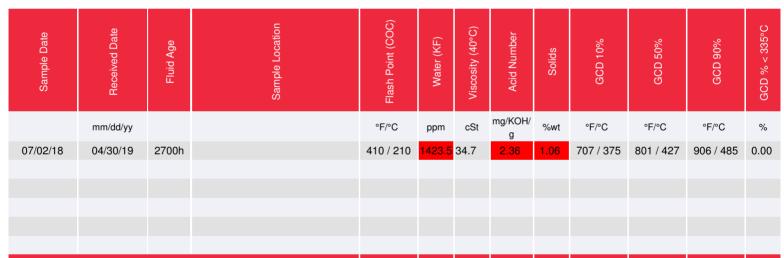


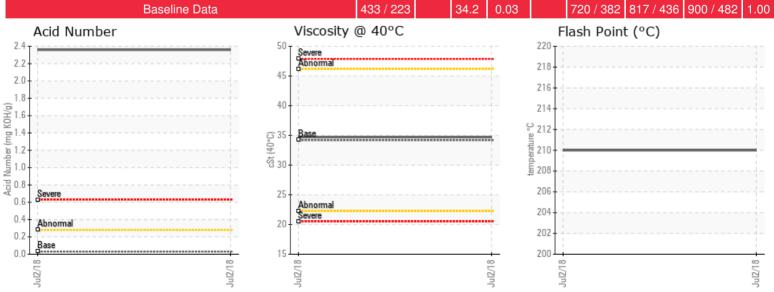
NEAPCO

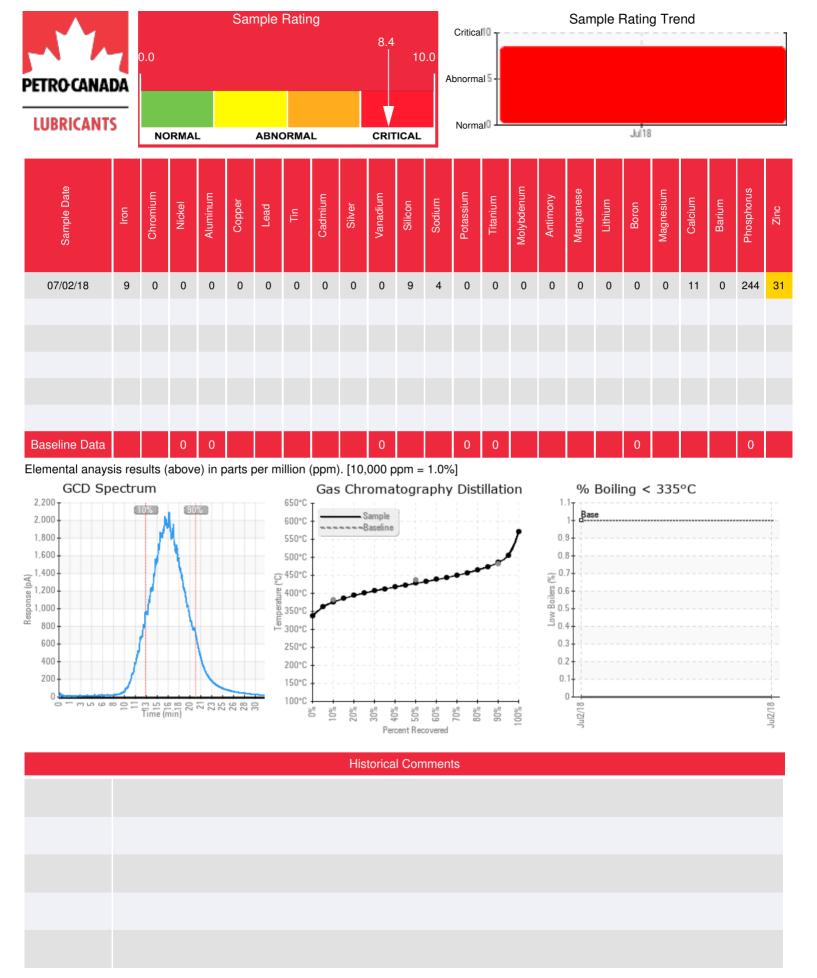
Customer: PTRHTF40112	System Information	Sample Information
Ondo sp. z o.o.	System Volume: 45 Itr	Lab No: 02282230
ul. Czerwieńskiego 3B	Bulk Operating Temp: 302F / 150C	Analyst: Philip Riley
Kraków, ZZ 31-319 Poland	Heating Source:	Sample Date: 07/02/18
Attn: Boguslaw Borek	Blanket:	Received Date: 04/30/19
Tel: 4(812)636-9943	Fluid: PETRO CANADA PETRO-THERM	Completed: 05/07/19
E-Mail: boguslaw.borek@ondo.eu	Make:	

Recommendation: Do we have any history to this system? Based on acid number and other contributory factors (water ingress, insoluble) I would recommend this system is changed with a cleaning and flushing regime incorporated. If there is a way to manage the water content in another charge of oil, the acidity levels and degradation could also be managed perhaps (with more system and application insight).

Comments: Water contamination levels are severely high. ppm Water contamination levels are severely high. Pentane Insolubles levels are severely high. Acid Number (AN) is severely high. Zinc ppm levels are abnormally high.







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