

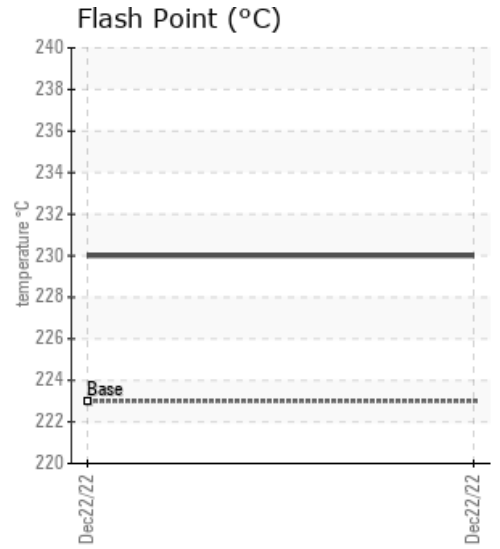
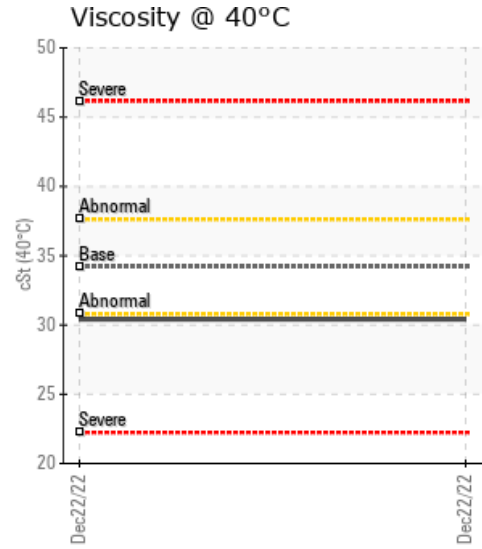
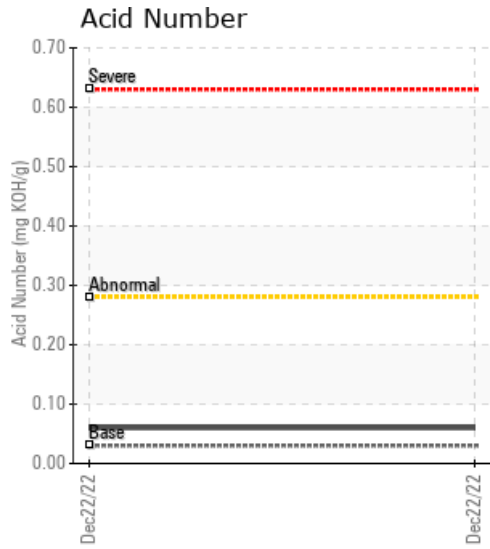
DOW CHEMICAL R-5

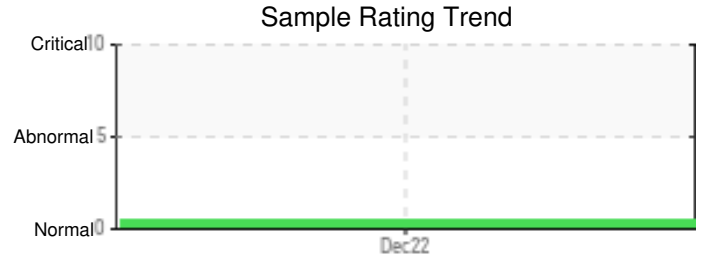
Customer: PTRHTF10262	System Information	Sample Information
J & A SALES 20W 267 101st Street Unit D Lemont, IL 40439 USA Attn: Kevin Fox Tel: (708)625-4841 E-Mail: kevin.fox40@yahoo.com	System Volume: 80 gal Bulk Operating Temp: 437F / 225C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: AMERICAN INDUSTRIAL	Lab No: 02533273 Analyst: Yvette Trzcinski Sample Date: 12/22/22 Received Date: 01/13/23 Completed: 01/20/23 Yvette Trzcinski yvette.trzcinski@HFSinclair.com

Recommendation: Viscosity, acid number, flash point are at acceptable levels

Comments:

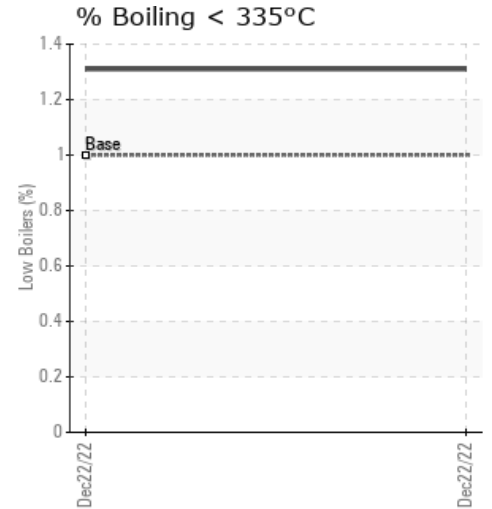
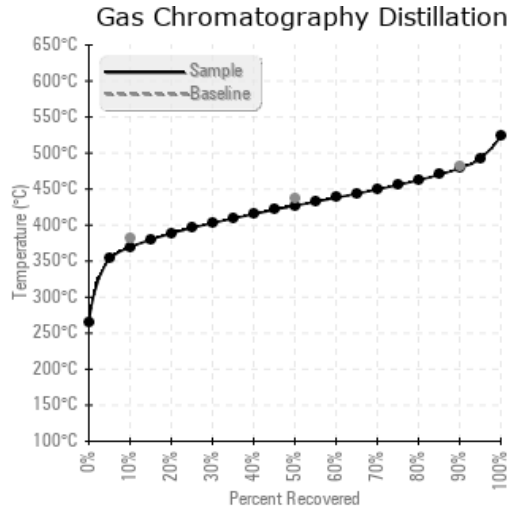
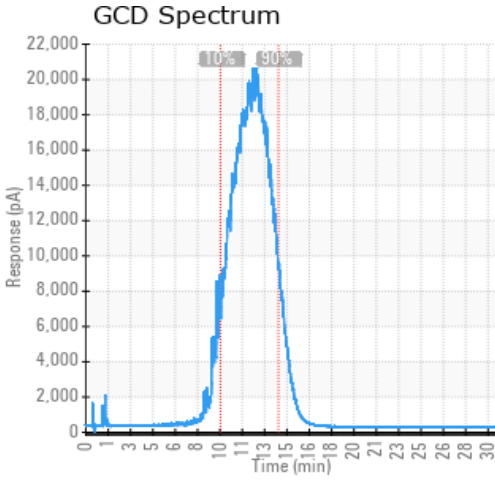
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
12/22/22	01/13/23	1.0y		446 / 230	5.9	30.4	0.06	0.031	696 / 369	800 / 427	894 / 479	1.31
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00





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
12/22/22	14	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	4	2	17	2
Baseline Data			0	0						0			0	0					0				0	

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



Historical Comments

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