

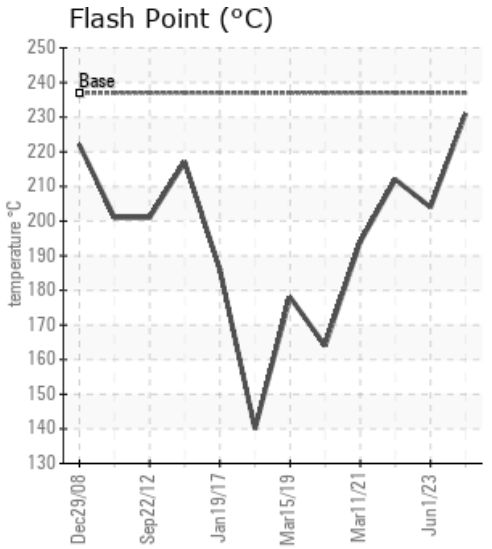
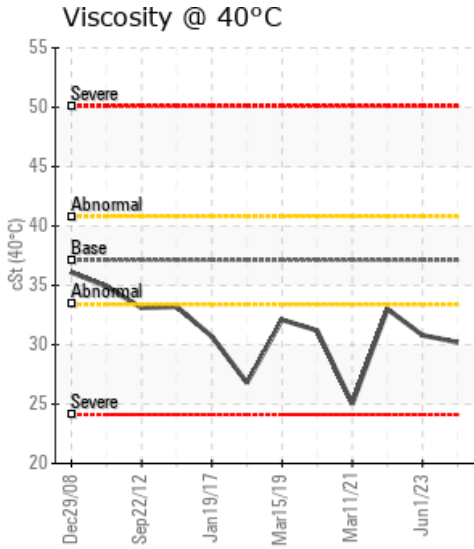
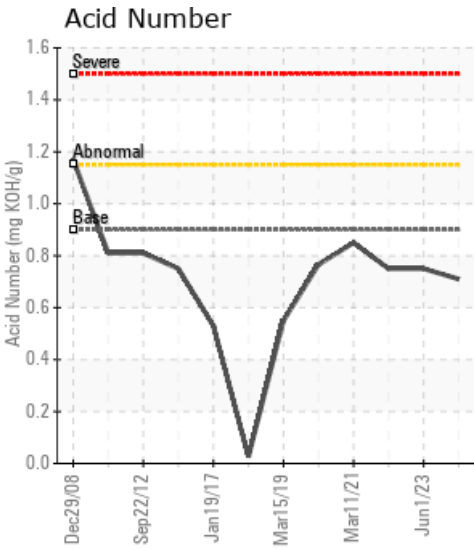
WANSON TPC 450 LN

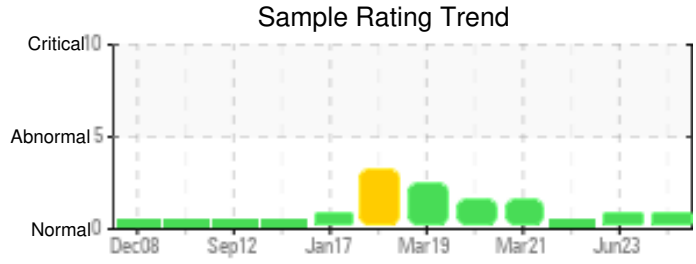
Customer: PTRHTF40044	System Information	Sample Information
NorthSeafood Netherlands Stortemelk 12-14 8321 EE Urk, NL Attn: Wilbert Snijers Tel: E-Mail: w.snijers@klt.nl	System Volume: 400 ltr Bulk Operating Temp: 270F / 132C Heating Source: Blanket: Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID Make: WANSON	Lab No: 02618535 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I Sample Date: 02/22/24 Received Date: 02/27/24 Completed: 03/05/24 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

Recommendation: The fluid is suitable for further service. Resample at the next service interval to monitor.

Comments: (GCD) 90% Distillation Point is abnormally high.

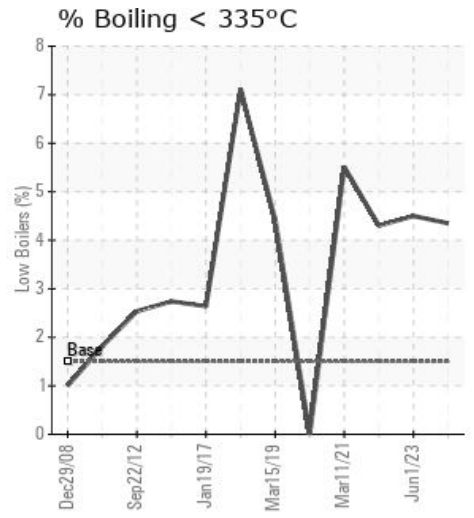
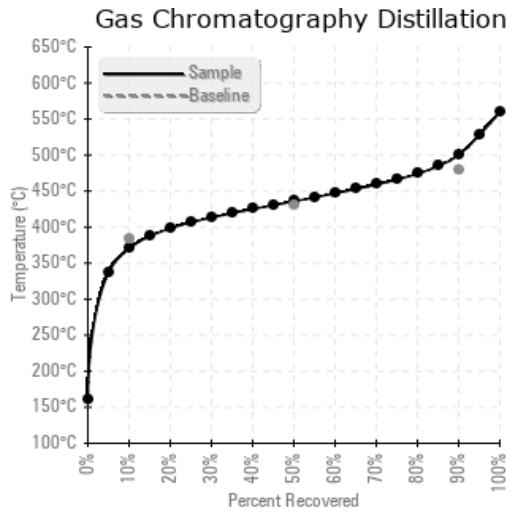
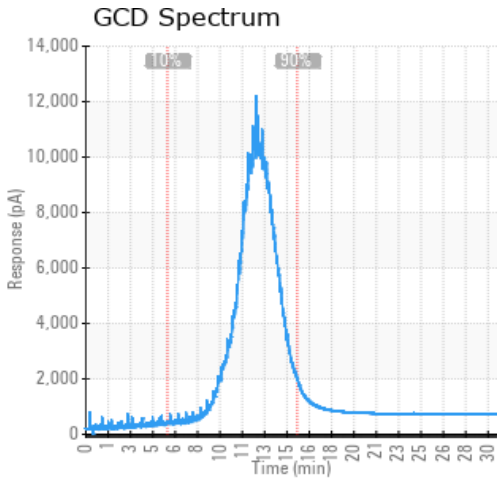
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
02/22/24	02/27/24	14.5y		448 / 231	21	30.2	0.71	0.199	698 / 370	816 / 436	932 / 500	4.35
06/01/23	06/07/23	14.0y		399 / 204	29.7	30.8	0.75	0.086	695 / 368	813 / 434	908 / 487	4.50
02/08/22	02/14/22	13.0y		414 / 212	29.1	33.0	0.75	0.143	699 / 371	813 / 434	909 / 487	4.30
03/11/21	03/16/21	12.0y		381 / 194	17.3	25.0	0.85	0.185	679 / 360	802 / 428	917 / 492	5.51
01/31/20	02/11/20	11.0y		327 / 164	19.1	31.2	0.766	0.141	740 / 393	821 / 439	904 / 484	0.00
Baseline Data				459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5





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
02/22/24	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	2
06/01/23	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	1
02/08/22	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	3
03/11/21	86	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	77	7
01/31/20	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	2
Baseline Data			0	0						0			0	0				0	0				230	

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



Historical Comments	
06/01/23	The fluid is suitable for further service. Resample at the next service interval to monitor. COC Flash Point is marginally low.
02/08/22	Fluid condition is acceptable for time in service. Resample at next normal interval.
03/11/21	Oil appears to be fit for further service. Suggest sample at next scheduled maintenance interval. (GCD) 90% Distillation Point is marginally high. COC Flash Point is marginally low.
01/31/20	Lowering of COC Flash Pt and some evidence of light end molecules in spectrum. As has previously been done with this product try and vent off (safely) the light ends and recover the flash point. Operating temperature of 135C and the flash point are still 30C apart, so flash point cannot afford to drop. Must look to recover flash point for further use (GCD) % < 335°C measurement of 0.00% by far too low, as flash point indicates high number of light molecules.

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