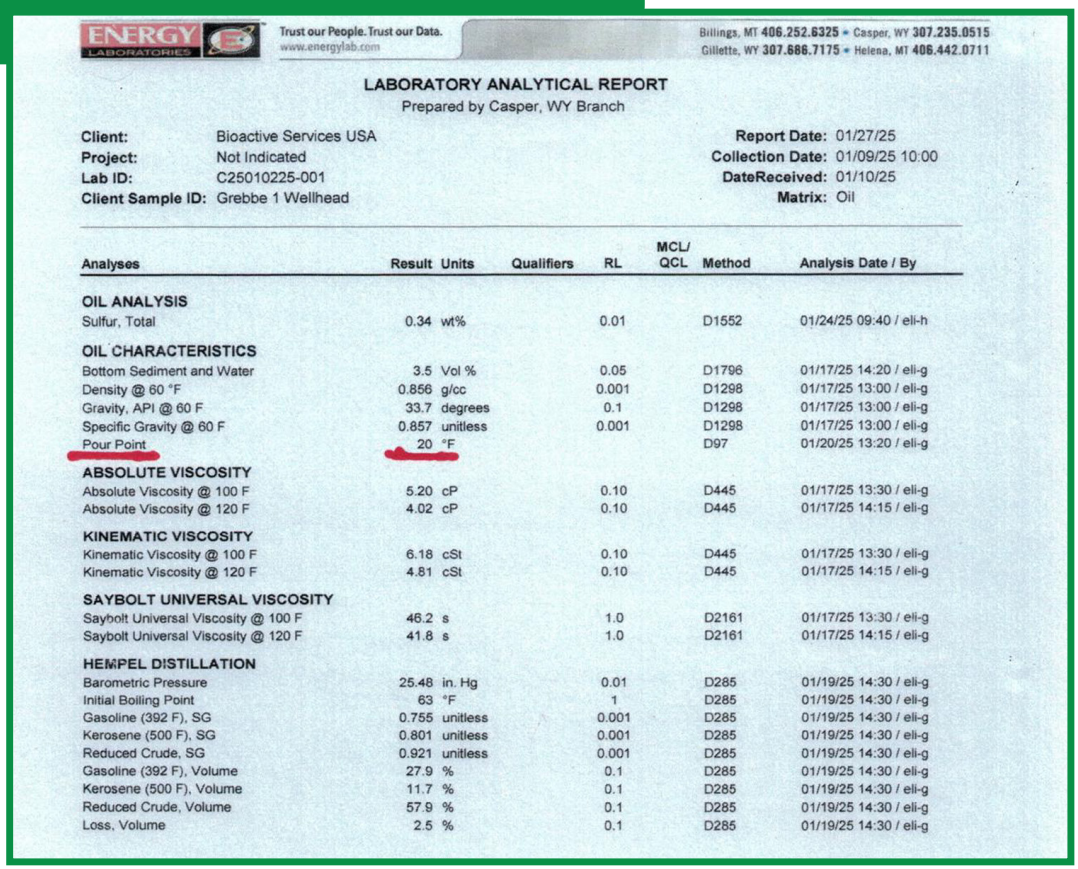
CONCENTRATED CHAINBREAKER MICROBE BLEND

HEATH FORMATION CASE HISTORY

BioActive
BioActiveServices.com



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LABORATORY ANALYTICAL REPORT
Prepared by Casper, WY Branch

Client: Bioactive Services USA
Project: Not Indicated
Lab ID: C25010225-001
Client Sample ID: Grebbe 1 Wellhead

Report Date: 01/27/25
Collection Date: 01/09/25 10:00
DateReceived: 01/10/25
Matrix: Oil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
OIL ANALYSIS							
Sulfur, Total	0.34	wt%		0.01		D1552	01/24/25 09:40 / eli-h
OIL CHARACTERISTICS							
Bottom Sediment and Water	3.5	Vol %		0.05		D1796	01/17/25 14:20 / eli-g
Density @ 60 °F	0.856	g/cc		0.001		D1298	01/17/25 13:00 / eli-g
Gravity, API @ 60 F	33.7	degrees		0.1		D1298	01/17/25 13:00 / eli-g
Specific Gravity @ 60 F	0.857	unitless		0.001		D1298	01/17/25 13:00 / eli-g
Pour Point	20	°F				D97	01/20/25 13:20 / eli-g
ABSOLUTE VISCOSITY							
Absolute Viscosity @ 100 F	5.20	cP		0.10		D445	01/17/25 13:30 / eli-g
Absolute Viscosity @ 120 F	4.02	cP		0.10		D445	01/17/25 14:15 / eli-g
KINEMATIC VISCOSITY							
Kinematic Viscosity @ 100 F	6.18	cSt		0.10		D445	01/17/25 13:30 / eli-g
Kinematic Viscosity @ 120 F	4.81	cSt		0.10		D445	01/17/25 14:15 / eli-g
SAYBOLT UNIVERSAL VISCOSITY							
Saybolt Universal Viscosity @ 100 F	46.2	s		1.0		D2161	01/17/25 13:30 / eli-g
Saybolt Universal Viscosity @ 120 F	41.8	s		1.0		D2161	01/17/25 14:15 / eli-g
HEMPEL DISTILLATION							
Barometric Pressure	25.48	in. Hg		0.01		D285	01/19/25 14:30 / eli-g
Initial Boiling Point	63	°F		1		D285	01/19/25 14:30 / eli-g
Gasoline (392 F), SG	0.755	unitless		0.001		D285	01/19/25 14:30 / eli-g
Kerosene (500 F), SG	0.801	unitless		0.001		D285	01/19/25 14:30 / eli-g
Reduced Crude, SG	0.921	unitless		0.001		D285	01/19/25 14:30 / eli-g
Gasoline (392 F), Volume	27.9	%		0.1		D285	01/19/25 14:30 / eli-g
Kerosene (500 F), Volume	11.7	%		0.1		D285	01/19/25 14:30 / eli-g
Reduced Crude, Volume	57.9	%		0.1		D285	01/19/25 14:30 / eli-g
Loss, Volume	2.5	%		0.1		D285	01/19/25 14:30 / eli-g

BEFORE TREATMENT:

The Heath formation oil is very paraffinic in nature and it has a pour point of 120F. That means at room temperature this oil has the consistency of a candle stick; it will not pour. In order to truck this oil the producers have to heat up the oil to 160F so they can haul 2hrs to refinery. The heated oil will allow them to load haul and unload at refinery, which is a very costly process.

AFTER TREATMENT:

The ChainBreaker microbes have changed the Heath oil from 120f down to 20F that's 100 degree difference. Not only has it changed the pour point and the viscosity but they have an increase production plus the producer doesn't have to heat the oil up to haul to refinery which is a major cost savings.

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