

LABORATORY ANALYSIS



11525 Rock Island Court, St. Louis, MO 63043
Tel: 1-800-876-0008 info@englube.com

ASHLEY ENERGY LLC
ONE ASHLEY ST.
ST LOUIS, MO
United States 63102
Contact: Service Manager

Equipment No. **#2 GAS TURBINE (00001)**
System **Unknown Component**
Oil Type **SHELL TURBO T ISO 32 (--- GAL)**

T:
F:

DIAGNOSIS

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is a high amount of particulates present in the sample. The condition of the sample is acceptable for the time in service. The sample is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

Lab Number	New	2309-00547	2309-00069	2308-01620
Date of Sample	(Typical)	18 Sep 2023	05 Sep 2023	30 Aug 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		SEVERE	MARGINAL	ATTENTION

VISCOSITY @ 100F OR 40C (ASTM D-445)

SSU Vis. @ 100F	SSU	162.5	---	166.0
cSt Vis. @ 40C	cSt	32	31.40	32.10

% WATER - KARL FISCHER (ASTM E203)

% Water (KF)	%	0.012	0.118	0.139
ppm Water (KF)	ppm	120	1,180	1,390

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/17/14	20/18/15	---	19/16/11
4 Micron & Larger	particles/ml	>5000	7,024	---	3,932
6 Micron & Larger	particles/ml	>1300	1,912	---	359
14 Micron & Larger	particles/ml	>160	203	---	18
21 Micron & Larger	particles/ml	>40	701	---	6
38 Micron & Larger	particles/ml	>10	5	---	1
70 Micron & Larger	particles/ml	>3	0	---	0

ICP - OILS (REPORTED IN PARTS PER MILLION)

Element	Unit	<5	---	<5
Aluminum (Al)	ppm	<5	---	<5
Antimony (Sb)	ppm	<5	---	<5
Cadmium (Cd)	ppm	<5	---	<5
Chromium (Cr)	ppm	<5	---	<5
Cobalt (Co)	ppm	<5	---	<5
Copper (Cu)	ppm	<5	---	<5
Iron (Fe)	ppm	<5	---	<5
Lead (Pb)	ppm	<5	---	<5
Manganese (Mn)	ppm	<5	---	<5
Molybdenum(Mo)	ppm	<5	---	<5
Nickel (Ni)	ppm	<5	---	<5
Silver (Ag)	ppm	<5	---	<5
Tin (Sn)	ppm	<5	---	<5
Titanium (Ti)	ppm	<5	---	<5
Vanadium (V)	ppm	<5	---	<5
Barium (Ba)	ppm	<5	---	<5
Boron (B)	ppm	<5	---	<5
Calcium (Ca)	ppm	<5	---	21
Magnesium (Mg)	ppm	<5	---	11
Phosphorus(P)	ppm	<5	---	8
Silicon (Si)	ppm	<5	---	<5
Zinc (Zn)	ppm	<5	---	5
Sulfur (S)	ppm	<5	---	59

Customer Id: ENC0133F01
Sample No.: EN23090547
Lab Number: 23090547
Test Package: TEST

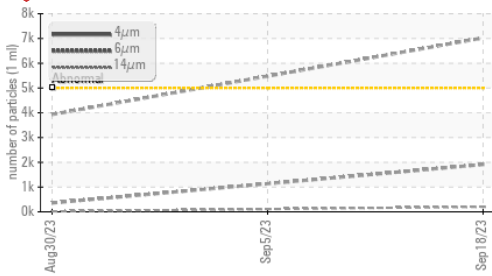


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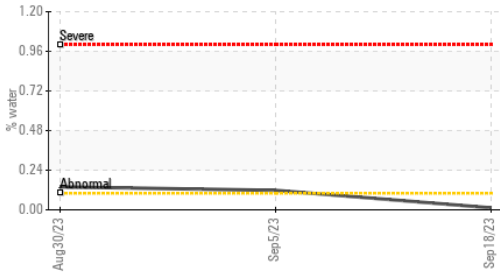
To discuss the diagnosis or test data:
Tracy Weaks +1 (314)872-9540
tweaks@englube.com

To change component or sample information:
Tracy Weaks +1 (314)872-9540
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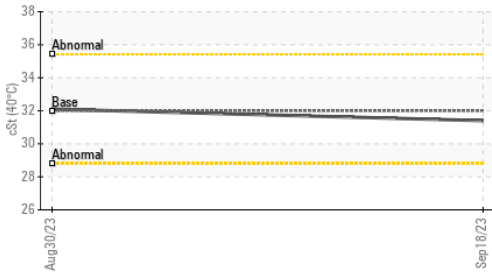
Particle Trend



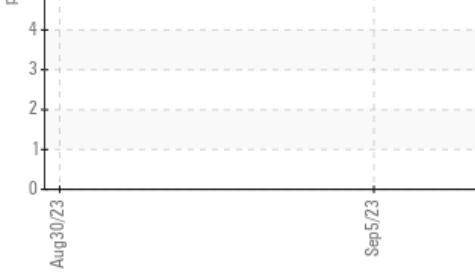
Water



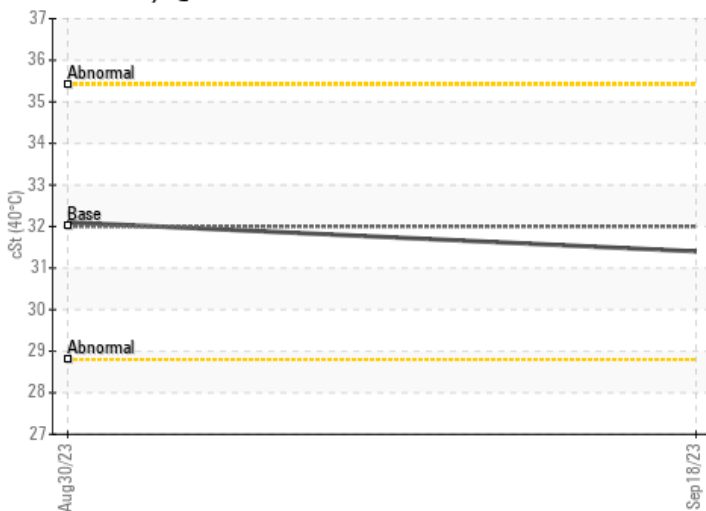
Viscosity @ 40°C



ppm



Viscosity @ 40°C



Particle Count

