

PROBLEM SUMMARY



Machine Id GAF BEAST T-1 (S/N D-4229) Turbine Fluid MOBIL VG 68 (1 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE			
Water	%	ASTM D6304	>0.03	A 0.106			
ppm Water	ppm	ASTM D6304	>300	<u> </u>			
Debris	scalar	*Visual	NONE	🔺 MODER			
Emulsified Water	scalar	*Visual	>0.03	6.2%			
Free Water	scalar	*Visual		▲ >10%			

Customer Id: ENEFAR Sample No.: WC0713665 Lab Number: 06138536 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED AC	TIONS			
Action	Status	Date	Done By	Description
Water Drain-off			?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.
Resample			?	We recommend an early resample to monitor this condition.
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

WATER

 \mathbf{x}

Machine Id

GAF BEAST T-1 (S/N D-4229) Turbine

Fluid MOBIL VG 68 (1 GAL)

DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Appearance is unacceptable Excessive free water present. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0713665		
Sample Date		Client Info		22 Mar 2024		
Machine Age	hrs	Client Info		3600		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	10		
Chromium	ppm	ASTM D5185m	>4	<1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	2		
Lead	ppm	ASTM D5185m		2		
Copper	ppm	ASTM D5185m	>5	7		
Tin	ppm	ASTM D5185m	>5	3		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		8		
Phosphorus	ppm	ASTM D5185m		135		
Zinc	ppm	ASTM D5185m		16		
Sulfur	ppm	ASTM D5185m		1259		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.03	A 0.106		
ppm Water	ppm	ASTM D6304	>300	1060		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0		
Nitration	Abs/cm	*ASTM D7624		2.4		
Sulfation	Abs/.1mm	*ASTM D7415		10.9		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		2.5		
Acid Number (AN)	mg KOH/g	ASTM D8045		0.12		



OIL ANALYSIS REPORT





V	ISUAL		method	limit/base	current	history1	history2
Wh	ite Metal	scalar	*Visual	NONE	NONE		
Yel	low Metal	scalar	*Visual	NONE	NONE		
Pre	cipitate	scalar	*Visual	NONE	NONE		
Silt		scalar	*Visual	NONE	NONE		
Deb	oris	scalar	*Visual	NONE			
Sar	nd/Dirt	scalar	*Visual	NONE	NONE		
App	bearance	scalar	*Visual	NORML	e HAZY		
Odd	or	scalar	*Visual	NORML	NORML		
Em	ulsified Water	scalar	*Visual	>0.03	0.2%		
Fre	e Water	scalar	*Visual		<mark>▲</mark> >10%		
FI	LUID PROPERT	IES	method	limit/base	current	history1	history2
Vise	c @ 40°C	cSt	ASTM D445		67.5		
S	AMPLE IMAGES		method	limit/base	current	history1	history2
Col	or				a.	no image	no image
Bot	tom					no image	no image
2	on-ferrous Metals	;		Mar22/24			
^d ⁴ ² ⁰ ⁴ ⁰ ⁰ ¹	iscosity @ 40°C bnormal			(g) 	Acid Number		
CSt (40°C) CSt (40°C) L22224	bnormal			Mar22/24	005 000 67272mW		
: Wear : WC0 : 0613 : 1096	rCheck USA - 501 1713665 18536 13344 2 (Additional Teat	Madiso Recei Teste Diagr	in Ave., Cary ived : 04 id : 10 inosed : 10	r, NC 27513 Apr 2024 Apr 2024 Apr 2024 Apr 2024 - Jona	ENERG	Y RESOURCE 23 COMMER FAR	S GROUP, IN CE PARK WA MINGTON, N US 0383

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: ENEFAR [WUSCAR] 06138536 (Generated: 04/10/2024 13:17:09) Rev: 1

Certificate L2367

Contact/Location: MIKE MORIN - ENEFAR

m.morin@energyresourcesgroup.us

Page 4 of 4

T: (603)335-2535

F: (603)335-2539