

OIL ANALYSIS REPORT

Sample Rating Trend

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Machine Id WVTM01BE Component

Biogas Engine

Fluid MOBIL Pegasus™ 605 Ultra 40 (--- GAL)

Ultra 40 (GAI	_)	2023 Nov20	23 Dec2023 Jan2024	Jan2024 Feb2024 Mar2024	Mar2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history
Sample Number		Client Info		WC0895541	WC0895537	WC089553
Sample Date		Client Info		19 Apr 2024	15 Apr 2024	11 Apr 202
Machine Age	hrs	Client Info		115595	115499	115404
Oil Age	hrs	Client Info		763	667	572
Oil Changed		Client Info		Not Changd	Not Changd	Not Change
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINATION	١	method	limit/base	current	history1	history
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history
Iron	ppm	ASTM D5185m	>14	6	6	5
Chromium	ppm	ASTM D5185m	>3	<1	0	0
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	3	3	2
Lead	ppm	ASTM D5185m	>8	1	2	<1
Copper	ppm	ASTM D5185m	>5	0	2	1
Tin	ppm	ASTM D5185m	>3	5	4	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m		40	45	62
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	1	2
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		21	20	14
Calcium	ppm	ASTM D5185m		1738	1697	1659
Phosphorus	ppm	ASTM D5185m		414	424	369
Zinc	ppm	ASTM D5185m		608	606	503
Sulfur	ppm	ASTM D5185m		5900	6062	4699
CONTAMINANTS		method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>180	4 207	🔺 186	158
Sodium	ppm	ASTM D5185m	>20	1	2	2
Potassium	ppm	ASTM D5185m	>20	0	2	0
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	*ASTM D7844		0	0	0
3001 %		*ASTM D7624		4.1	4.1	3.8
Nitration	Abs/cm	AO INI DI OLA				
	Abs/cm Abs/.1mm	*ASTM D7624		27.4	26.7	24.6
Nitration	Abs/.1mm		limit/base		26.7 history1	
Nitration Sulfation	Abs/.1mm	*ASTM D7415	limit/base	27.4		
Nitration Sulfation FLUID DEGRADA	Abs/.1mm	*ASTM D7415 method	limit/base	27.4 current	history1	history

DIAGNOSIS

Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

A Wear

The tin level is severe.

Contamination

Elemental level of silicon (Si) above normal.

Fluid Condition

The BN level is low. The AN level is acceptable for this fluid. The oil is no longer serviceable.

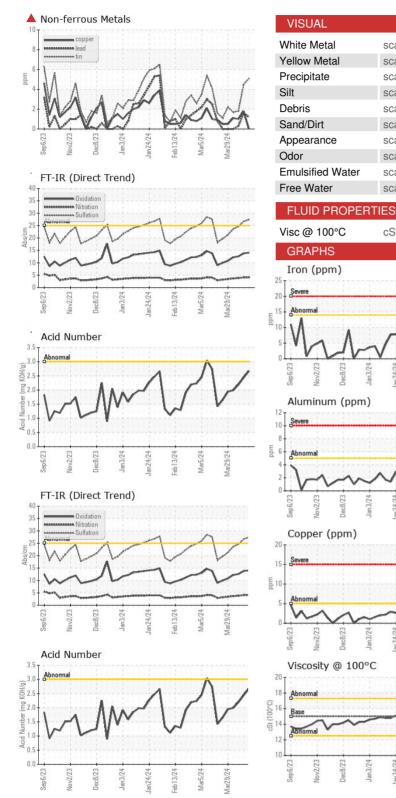
Submitted By: Scott Eastman

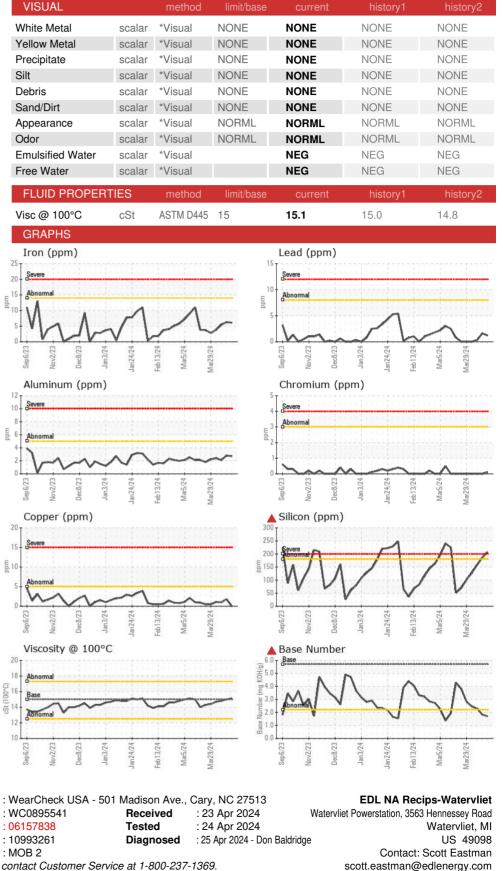
WEAR

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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.

: WC0895541

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

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Report Id: EDLWAT [WUSCAR] 06157838 (Generated: 04/25/2024 16:48:23) Rev: 1

Certificate 12367

Laboratory

Sample No.

Lab Number : 06157838

Unique Number : 10993261

Test Package : MOB 2

Submitted By: Scott Eastman Page 2 of 2

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