

OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Machine Id WVTM01BE

Component Biogas Engine

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

DIAGNOSIS	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
▲ Recommendation We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0895537	WC0895536	WC0895562
	Sample Date		Client Info		15 Apr 2024	11 Apr 2024	02 Apr 2024
	Machine Age	hrs	Client Info		115499	115404	115189
	Oil Age	hrs	Client Info		667	572	357
	Oil Changed		Client Info		Not Changd	Not Changd	Not Change
Wear	Sample Status				SEVERE	SEVERE	NORMAL
ne tin level is abnormal.	CONTAMINATION	M	method	limit/base	current	history1	history
Contamination	Eucl	N	WC Mothod	> 1 0	-1.0		<1.0
	N/ator		WC Method	>4.0		NEG	<1.0
• Fluid Condition The BN level is low. The AN level is acceptable for this fluid. The oil is no longer serviceable.	Glycol		WC Method		NEG	NEG	NEG
	Giycol		WC Method		NEG	NEG	NLG
	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>14	6	5	4
	Chromium	ppm	ASTM D5185m	>3	0	0	0
	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>5	3	2	2
	Lead	ppm	ASTM D5185m	>8	2	<1	0
	Copper	ppm	ASTM D5185m	>5	2	1	1
	Tin	ppm	ASTM D5185m	>3	<u> </u>	2	2
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		45	62	44
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		1	2	2
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		20	14	16
	Calcium	ppm	ASTM D5185m		1697	1659	1647
	Phosphorus	ppm	ASTM D5185m		424	369	333
	Zinc	ppm	ASTM D5185m		606	503	546
	Sulfur	ppm	ASTM D5185m		6062	4699	5256
	CONTAMINANTS		method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>180	186	158	127
	Sodium	ppm	ASTM D5185m	>20	2	2	1
	Potassium	ppm	ASTM D5185m	>20	2	0	0
	INFRA-RED		method	limit/base	current	history1	history
	Soot %	%	*ASTM D7844		0	0	0
	Nitration	Abs/cm	*ASTM D7624		4.1	3.8	3.7
	Sulfation	Abs/.1mm	*ASTM D7415		26.7	24.6	23.6
	FLUID DEGRADA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414		13.8	12.6	12.2
	Acid Number (AN)	mg KOH/a	ASTM D8045		2.44	2.19	1.99
		1011					0.40



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NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

Base

Mar25/24

: 17 Apr 2024

: 18 Apr 2024

Mar1/24

15

Aar1/24

Aar1/24 ar75/74 NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

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NEG





NONE

NONE

NONE

NONE

NONE

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NORML

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NONE

NORML

NORML

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NEG



Dec4/23

c78/73

Watervliet Powerstation, 3563 Hennessey Road Watervliet, MI : 22 Apr 2024 - Don Baldridge US 49098 Contact: Scott Eastman scott.eastman@edlenergy.com T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Feb12/24

Mar1/24 Mar25/24

EDL NA Recips-Watervliet

an 19/74

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