

OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

X



Machine Id WVTM02BE

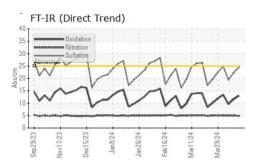
Biogas Engine

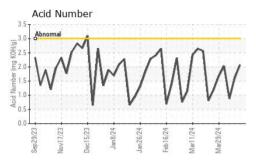
Fluid MOBIL Pegasus™ 605 Ultra 40 (--- GAL)

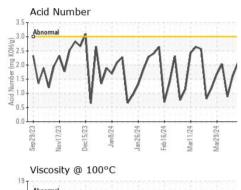
NOSIS SAMPLE	INFORMATION	method	limit/base	current	history1	history2
ommendation Sample Nun	nber	Client Info		WC0895543	WC0895540	WC089553
commend that you drain the oil and perform a Sample Date	e	Client Info		22 Apr 2024	19 Apr 2024	15 Apr 2024
rvice on this component if not already done. Machine Ag	e hrs	Client Info		45216	45143	45047
commend an early resample to monitor this Oil Age	hrs	Client Info		284	211	115
on. Oil Changed		Client Info		Not Changd	Not Changd	Not Chango
Sample Stat	us			SEVERE	SEVERE	NORMAL
ponent wear rates are normal.	INATION	method	limit/base	current	history1	history
nination s no indication of any contamination in the Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	- 110	NEG	NEG	NEG
d Condition Glycol		WC Method		NEG	NEG	NEG
I level is low. The AN level is acceptable for	TALS	method	limit/base	current	history1	history
u						
Iron	ppm	ASTM D5185m		2	0	<1
Chromium	ppm	ASTM D5185m	>3	<1	<1	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		3	1	2
Lead	ppm	ASTM D5185m		2	0	0
Copper	ppm	ASTM D5185m	>5	<1	0	<1
Tin	ppm	ASTM D5185m	>3	2	2	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVE	S	method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m		21	6	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenun	n ppm	ASTM D5185m		2	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		11	8	11
Calcium	ppm	ASTM D5185m		1740	1733	1636
Phosphorus	ppm	ASTM D5185m		312	273	277
Zinc	ppm	ASTM D5185m		368	316	308
Sulfur	ppm	ASTM D5185m		4377	3888	3396
	INANTS	method	limit/base	current	history1	history
CONTAM						
CONTAM			>180	85	64	41
Silicon	ppm	ASTM D5185m		85 1	64 <1	41
			>20	85 1 2	64 <1 <1	41 2 2
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20	1 2	<1 <1	2 2
Silicon Sodium Potassium INFRA-RE	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>20	1 2 current	<1 <1 history1	2 2 history:
Silicon Sodium Potassium INFRA-RE Soot %	ppm ppm ppm ED	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>20 >20	1 2 current 0	<1 <1 history1 0	2 2 history 0
Silicon Sodium Potassium INFRA-RE Soot % Nitration	ppm ppm ppm D % Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>20 >20	1 2 current 0 4.9	<1 <1 <u>history1</u> 0 5.0	2 2 history 0 5.0
Silicon Sodium Potassium INFRA-RE Soot % Nitration Sulfation	ppm ppm ppm ED % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7844 *ASTM D7415	>20 >20 limit/base	1 2 current 0 4.9 24.5	<1 <1 <u>history1</u> 0 5.0 22.3	2 2 history 0 5.0 19.4
Silicon Sodium Potassium INFRA-RE Soot % Nitration Sulfation	ppm ppm ppm D % Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>20 >20	1 2 current 0 4.9 24.5 current	<1 <1 history1 0 5.0 22.3 history1	2 2 history 0 5.0 19.4 history
Silicon Sodium Potassium INFRA-RE Soot % Nitration Sulfation	ppm ppm ppm ED % Abs/cm Abs/.1mm GRADATION Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7844 *ASTM D7415	>20 >20 limit/base	1 2 current 0 4.9 24.5	<1 <1 <u>history1</u> 0 5.0 22.3	2 2 history 0 5.0

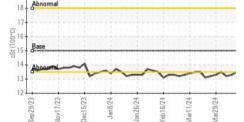


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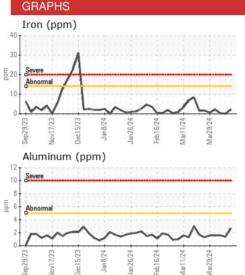


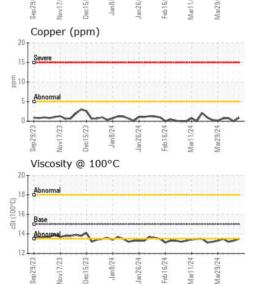


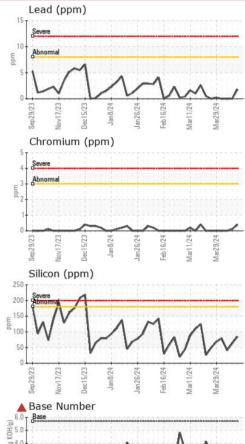


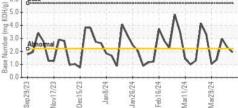


	method	limit/base	current	history1	history2
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NORML	NORML	NORML	NORML
scalar	*Visual	NORML	NORML	NORML	NORML
scalar	*Visual		NEG	NEG	NEG
scalar	*Visual		NEG	NEG	NEG
ES	method	limit/base	current	history1	history2
cSt	ASTM D445	15	13.5	13.3	13.2
	scalar scalar scalar scalar scalar scalar scalar scalar scalar	scalar *Visual scalar *Visual scalar *Visual scalar *Visual scalar *Visual scalar *Visual scalar *Visual scalar *Visual scalar *Visual scalar *Visual	scalar *Visual NONE scalar *Visual NONE scalar *Visual NONE scalar *Visual NONE scalar *Visual NONE scalar *Visual NONE scalar *Visual NORML scalar *Visual NORML scalar *Visual scalar *Visual	scalar*VisualNONENONEscalar*VisualNONENONEscalar*VisualNONENONEscalar*VisualNONENONEscalar*VisualNONENONEscalar*VisualNONENONEscalar*VisualNONENONEscalar*VisualNONENONEscalar*VisualNORMLNORMLscalar*VisualNORMLNEGscalar*VisualImit/basecurrent	scalar*VisualNONENONENONEscalar*VisualNONENONENONEscalar*VisualNONENONENONEscalar*VisualNONENONENONEscalar*VisualNONENONENONEscalar*VisualNONENONENONEscalar*VisualNONENONENONEscalar*VisualNORMLNORMLNORMLscalar*VisualNORMLNORMLNORMLscalar*VisualNORMLNEGNEGscalar*VisualImit/basecurrenthistory1









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **EDL NA Recips-Watervliet** Sample No. : WC0895543 Received : 24 Apr 2024 Watervliet Powerstation, 3563 Hennessey Road Lab Number : 06159302 Tested : 26 Apr 2024 Watervliet, MI Unique Number : 10994725 Diagnosed : 26 Apr 2024 - Don Baldridge US 49098 Test Package : MOB 2 Contact: Scott Eastman Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. scott.eastman@edlenergy.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т:

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

Report Id: EDLWAT [WUSCAR] 06159302 (Generated: 04/26/2024 10:42:04) Rev: 1

Submitted By: Scott Eastman Page 2 of 2

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