WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ATTENTION

Machine Id

LUMOS 8KW-5

Component
Diesel Engine
Fluid

RECOMMENDATION							
(LOOMINENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of compliant has been noted. Because in	Sample Number		Client Info		WC0946744		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		17 May 2024		
	Machine Age	hrs	Client Info		2		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR	Iron	ppm	ASTM D5185m	>100	5		
VEAIL	Chromium	ppm	ASTM D5185m		0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	77	0		
	Silver	ppm	ASTM D5185m	~3	<1		
	Aluminum	ppm	ASTM D5185m		2		
	Lead		ASTM D5185m		<1		
	Copper	ppm ppm	ASTM D5185m		5		
	Tin	ppm	ASTM D5185m		- <1		
	Vanadium	ppm	ASTM D5185m	/10	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		14		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0		
	Fuel	%	ASTM D3524		0.7		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0		
	Nitration	Abs/cm	*ASTM D7624	>20	4.3		
	Sulfation	Abs/.1mm	*ASTM D7415		17.4		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1		
	Boron	ppm	ASTM D5185m	316	104		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m	0.0	3		
	Molybdenum	ppm	ASTM D5185m	1.2	66		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m	24	390		
	Calcium	ppm	ASTM D5185m		2154		
	Phosphorus	ppm	ASTM D5185m	1064	1083		
	Zinc	ppm	ASTM D5185m		1281		
	Sulfur	ppm	ASTM D5185m	4996	4261		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2		
	Oxidation Base Number (BN)		*ASTM D7414 ASTM D2896		13.2 9.4		





Certificate L2367

Laboratory Sample No. Lab Number : 06188854

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0946744

Received **Tested** Unique Number: 11045606

: 23 May 2024 : 28 May 2024 Diagnosed

: 28 May 2024 - Don Baldridge Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

PIEDMONT GENERATOR 7560 NC HWY 22 NORTH

CLIMAX, NC US 27233

Contact: TERRY SHEPPARD terry1pg@bellsouth.net; bill3pg@bellsouth.net

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)

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