



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
LUMOS 8KW-3
 Component
Diesel Engine
 Fluid
SHELL ROTELLA T 15W40 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0946742	---	---
Sample Date		Client Info		17 May 2024	---	---
Machine Age	hrs	Client Info		1	---	---
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

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	4	---	---
Chromium	ppm	ASTM D5185m	>20	0	---	---
Nickel	ppm	ASTM D5185m	>4	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m	>3	<1	---	---
Aluminum	ppm	ASTM D5185m	>20	1	---	---
Lead	ppm	ASTM D5185m	>40	1	---	---
Copper	ppm	ASTM D5185m	>330	5	---	---
Tin	ppm	ASTM D5185m	>15	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

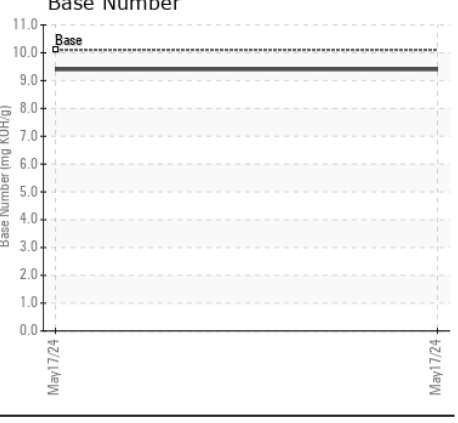
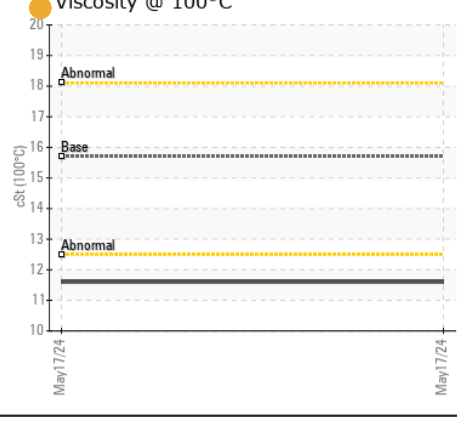
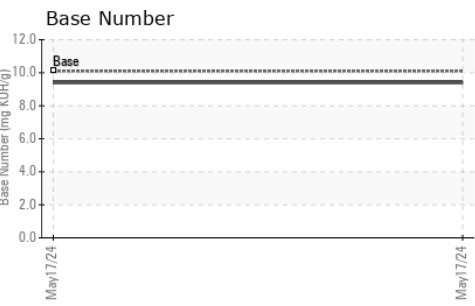
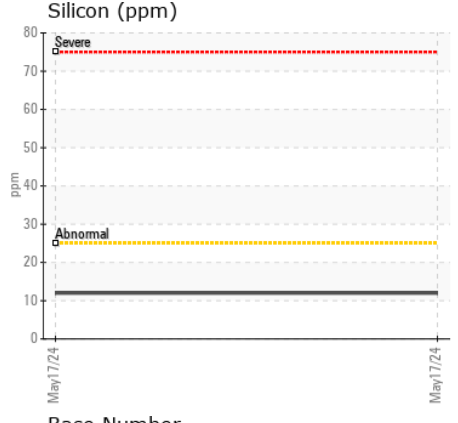
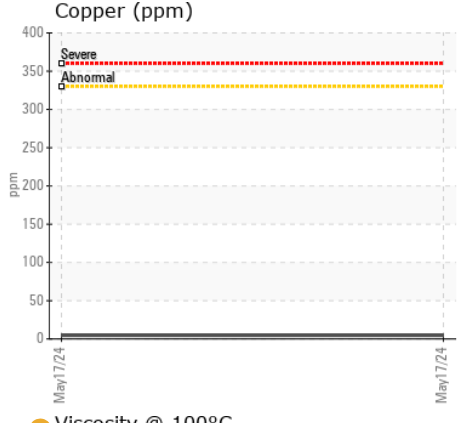
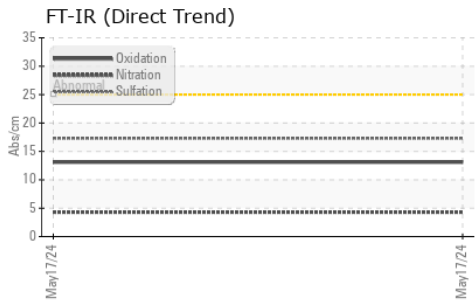
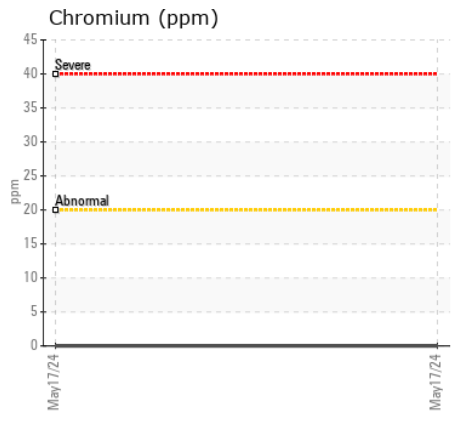
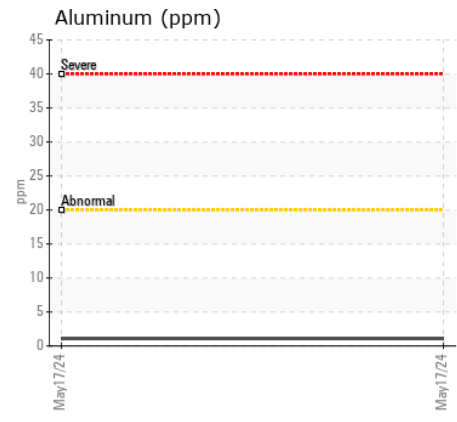
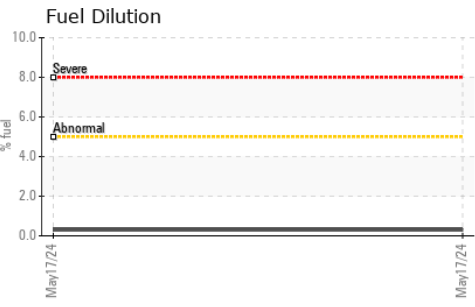
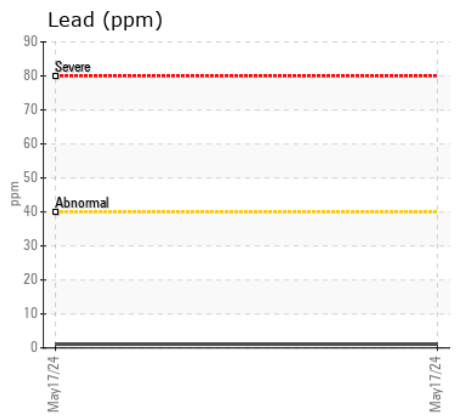
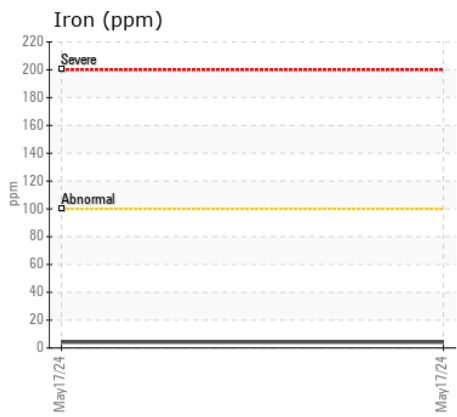
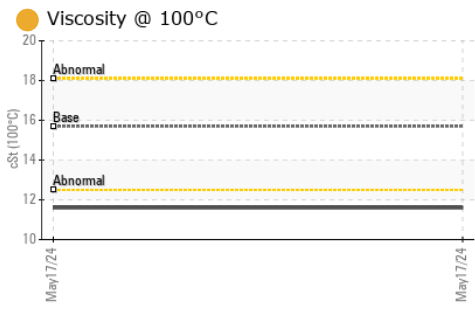
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	12	---	---
Potassium	ppm	ASTM D5185m	>20	1	---	---
Fuel	%	ASTM D3524	>5	0.3	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844	>3	0	---	---
Nitration	Abs/cm	*ASTM D7624	>20	4.3	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	---	---
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

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		2	---	---
Boron	ppm	ASTM D5185m	316	102	---	---
Barium	ppm	ASTM D5185m	0.0	4	---	---
Molybdenum	ppm	ASTM D5185m	1.2	61	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m	24	405	---	---
Calcium	ppm	ASTM D5185m	2292	2112	---	---
Phosphorus	ppm	ASTM D5185m	1064	1092	---	---
Zinc	ppm	ASTM D5185m	1160	1336	---	---
Sulfur	ppm	ASTM D5185m	4996	4481	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	9.4	---	---
Visc @ 100°C	cSt	ASTM D445	15.7	11.6	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0946742 **Received** : 23 May 2024
Lab Number : 06188856 **Tested** : 28 May 2024
Unique Number : 11045608 **Diagnosed** : 28 May 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

PIEDMONT GENERATOR
 7560 NC HWY 22 NORTH
 CLIMAX, NC
 US 27233

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

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

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

T: (336)685-4859

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

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