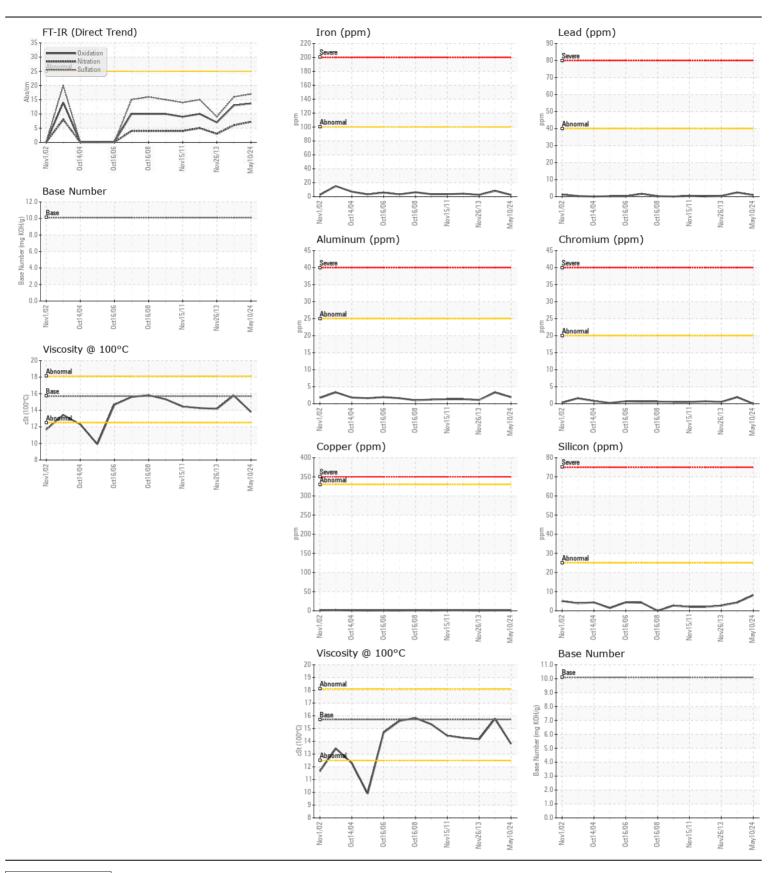
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

Machine Id

## ONAN JAMESTOWN MENDENHAL PUMP STATION

**Diesel Engine** 

SHELL ROTELLA T 15W40 (8 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0933140	WCM1307068	WCM128501
	Sample Date		Client Info		10 May 2024	29 Oct 2014	26 Nov 201
	Machine Age	hrs	Client Info		97	589	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	2	8	2
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		0	2	<1
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		2	3	1
	Lead	ppm	ASTM D5185m		- <1	2	<1
	Copper	ppm	ASTM D5185m		1	1	<1
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	. 05		A	3
	Potassium	ppm	ASTM D5185m		8	0	<1
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		-	<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 2	0.1	0	
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.	3.
	Sulfation	Abs/.1mm	*ASTM D7624		17.0	16.	9.
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
						_	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	040	2	5	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		82	2	4
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	1.2	83	48	40
	Manganese	ppm	ASTM D5185m	0.4	<1	0	<1
	Magnesium	ppm	ASTM D5185m		91	922	754
	Calcium	ppm	ASTM D5185m		2308	1373	1311
	Phosphorus	ppm	ASTM D5185m		1051	1000	1039
	Zinc	ppm	ASTM D5185m		1197	1300	1096
	Sulfur	ppm Aba/1mm	ASTM D5185m		4215	1917	4070
	Oxidation	Abs/.1mm	*ASTM D7414		13.7	13.	7.
	Base Number (BN)				7.5	45.70	14.17
	Visc @ 100°C	cSt	ASTM D445		13.8	15.78	





Certificate L2367

Report Id: PIEJUL [WUSCAR] 06188846 (Generated: 05/24/2024 16:55:25) Rev: 1

Laboratory Sample No.

: WC0933140 Lab Number : 06188846 Unique Number: 11045598

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

: 24 May 2024 : 24 May 2024 - Wes Davis

: 23 May 2024

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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