



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**SEDNA DESGAGNES - DIESEL GENERATOR 1 (S/N 4741805252780)**

Component  
**1 Diesel Engine**

Fluid  
**SHELL SIRIUS 15W40 (35 LTR)**

**RECOMMENDATION**

The oil 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		<b>PC367326</b>	PC335768	PC334467
Sample Date		Client Info		<b>16 Mar 2016</b>	13 Sep 2014	10 Feb 2014
Machine Age	hrs	Client Info		<b>19401</b>	14978	13271
Oil Age	hrs	Client Info		<b>250</b>	0	6
Filter Age	hrs	Client Info		<b>250</b>	0	6
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

An increase in the copper level is noted. All other component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>20</b>	10	3
Chromium	ppm	ASTM D5185(m)	>10	<b>2</b>	2	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>2</b>	3	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	3	1
Lead	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	0
Copper	ppm	ASTM D5185(m)	>15	<b>23</b>	10	<1
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

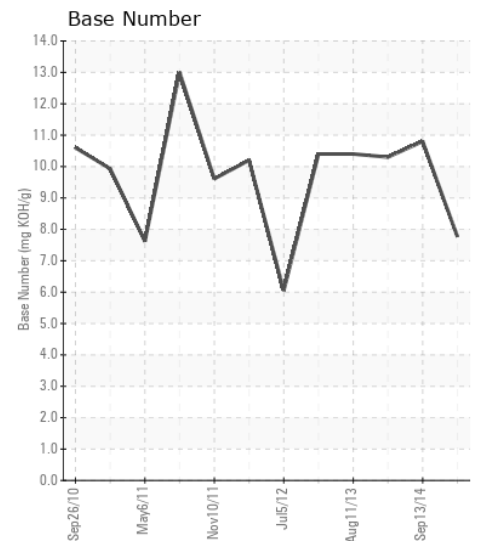
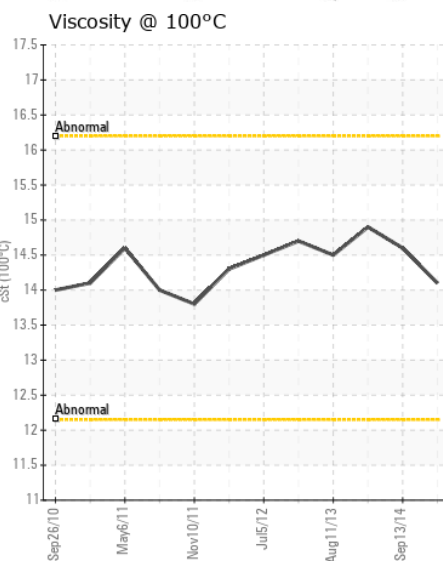
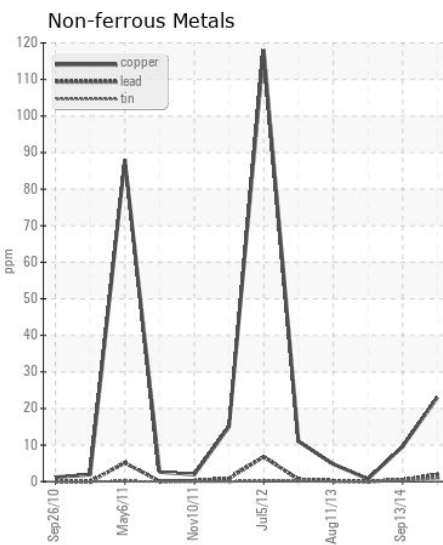
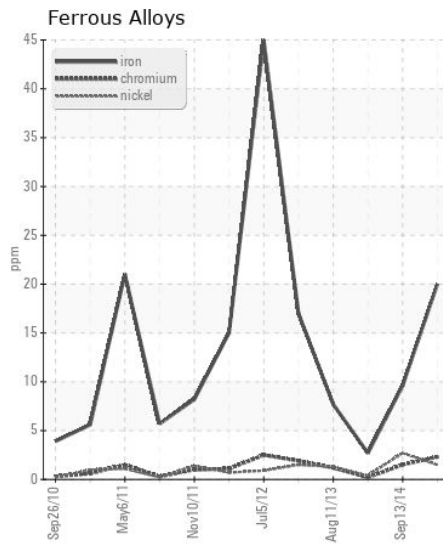
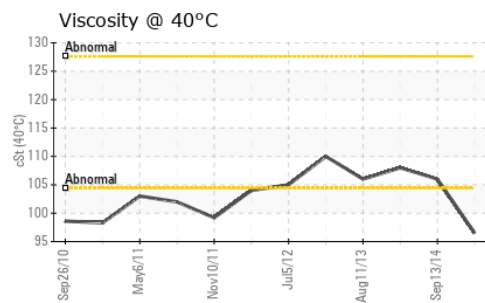
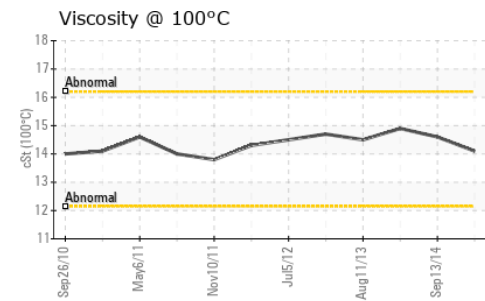
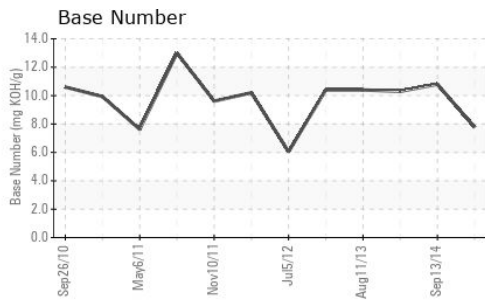
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185(m)	>20	<b>9</b>	6	6
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	2
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>1.5	<b>0.3</b>	0.2	0
Nitration	Abs/cm	ASTM D7624*		<b>7.6</b>	8.4	6.4
Sulfation	Abs/.1mm	ASTM D7415*		<b>21.0</b>	20.9	21.5
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>8</b>	3	1
Boron	ppm	ASTM D5185(m)		<b>47</b>	47	59
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<b>12</b>	17	17
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>121</b>	318	365
Calcium	ppm	ASTM D5185(m)		<b>2500</b>	2485	2583
Phosphorus	ppm	ASTM D5185(m)		<b>946</b>	876	917
Zinc	ppm	ASTM D5185(m)		<b>1137</b>	1041	1198
Sulfur	ppm	ASTM D5185(m)		<b>3875</b>	3901	4393
Oxidation	Abs/.1mm	ASTM D7414*		<b>15.1</b>	16.3	14.4
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>7.77</b>	10.8	10.3
Visc @ 40°C	cSt	ASTM D7279(m)		<b>96.5</b>	106	108
Visc @ 100°C	cSt	ASTM D7279(m)		<b>14.1</b>	14.6	14.9
Viscosity Index (VI)	Scale	ASTM D2270*		<b>149</b>	141	143



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC367326  
**Lab Number** : **02061654**  
**Unique Number** : 4287962  
**Test Package** : MAR 2 ( Additional Tests: KV40, VI )

**Received** : 29 Mar 2016  
**Tested** : 31 Mar 2016  
**Diagnosed** : 31 Mar 2016 - Kevin Marson

**Sedna Desgagnes - Transport Desgagnes Inc.**  
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 Quebec City, QC  
 CA G1K 8Z8  
 Contact: Sonia Desmarais  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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