



# OIL ANALYSIS REPORT

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

Machine Id  
**VOGELE F-84 PROPEL**  
Component  
**Left Planetary**  
Fluid  
**SAE 80W140 (2 GAL)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## WEAR

Bearing and/or gear wear is indicated.

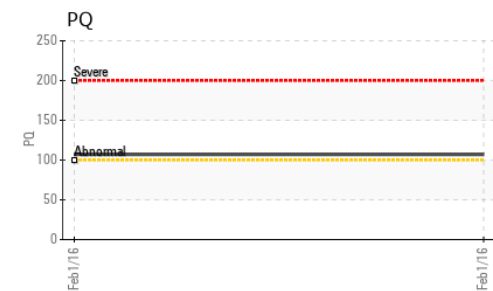
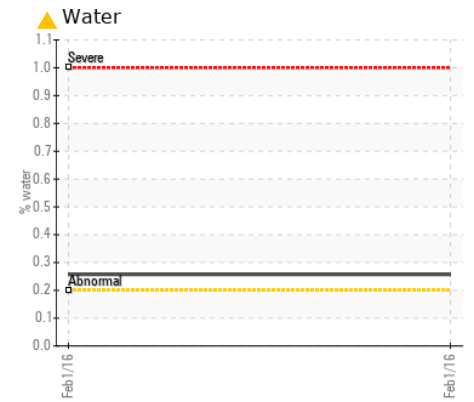
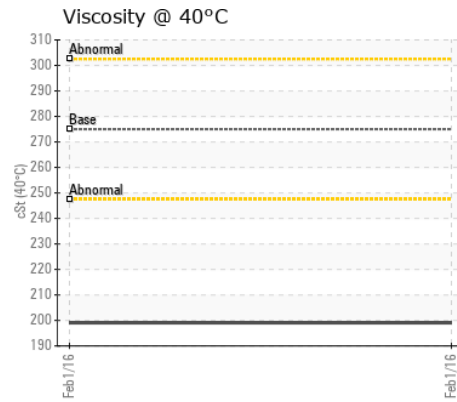
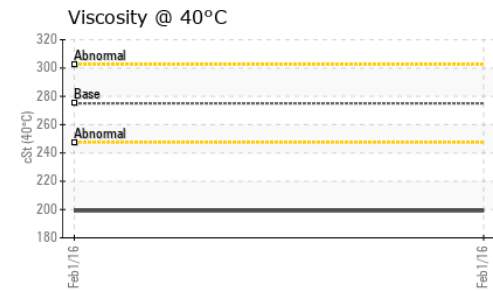
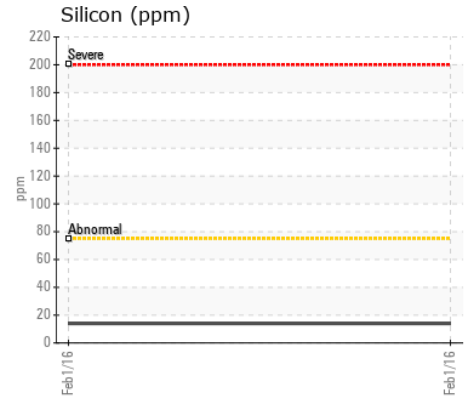
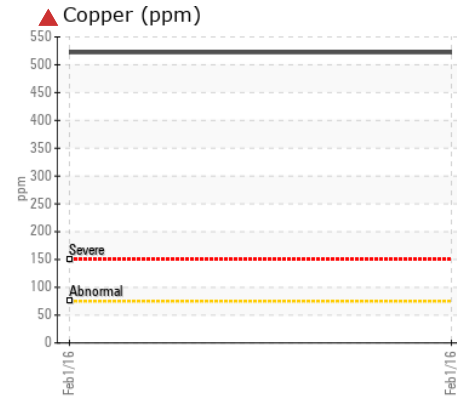
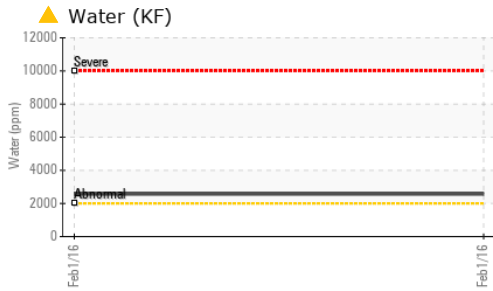
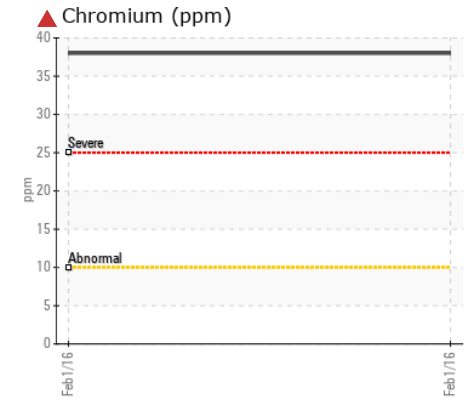
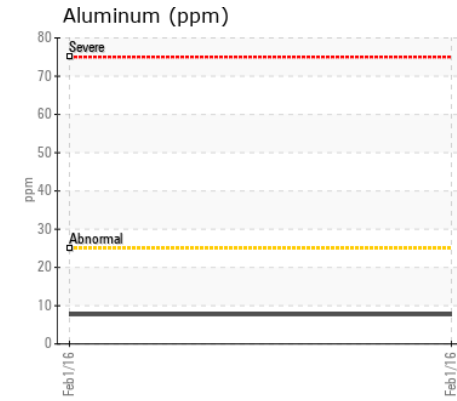
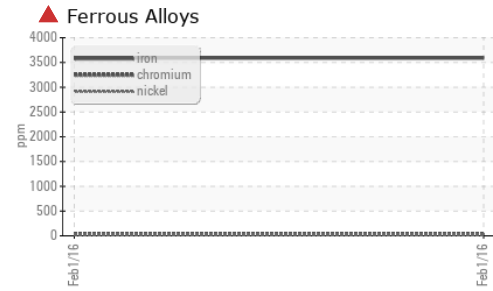
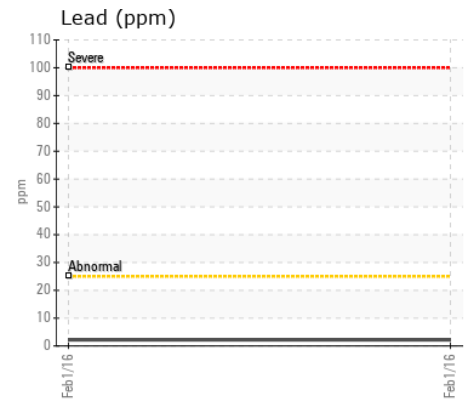
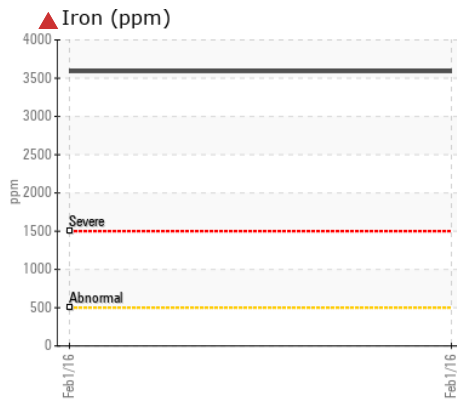
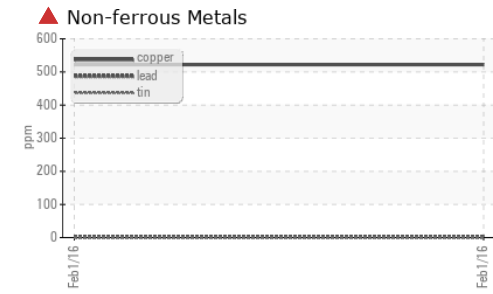
## CONTAMINATION

There is a light concentration of water present in the oil.

## FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MTMCF25938	---	---
Sample Date		Client Info		01 Feb 2016	---	---
Machine Age	hrs	Client Info		7456	---	---
Oil Age	hrs	Client Info		800	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184		107	---	---
Iron	ppm	ASTM D5185m	>500	▲ 3589	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 38	---	---
Nickel	ppm	ASTM D5185m		▲ 12	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	8	---	---
Lead	ppm	ASTM D5185m	>25	2	---	---
Copper	ppm	ASTM D5185m	>75	▲ 522	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	LIGHT	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>75	14	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water	%	ASTM D6304	>0.2	▲ 0.257	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2570	---	---
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	0.2%	---	---
Sodium	ppm	ASTM D5185m		9	---	---
Boron	ppm	ASTM D5185m		66	---	---
Barium	ppm	ASTM D5185m		<1	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		28	---	---
Magnesium	ppm	ASTM D5185m		1	---	---
Calcium	ppm	ASTM D5185m		24	---	---
Phosphorus	ppm	ASTM D5185m		1087	---	---
Zinc	ppm	ASTM D5185m		68	---	---
Sulfur	ppm	ASTM D5185m		48313	---	---
Visc @ 40°C	cSt	ASTM D445	275	199.1	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MTMCF25938 **Received** : 11 Feb 2016  
**Lab Number** : 03919691 **Tested** : 12 Feb 2016  
**Unique Number** : 7295029 **Diagnosed** : 12 Feb 2016 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: KF, PQ )

**SHELLY AND SANDS INC.**  
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 T: (740)453-6260  
 F: (740)453-6980

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)