



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
VOGELE F-84
Component
Left Planetary
Fluid
CASTROL SYNGEAR 80W140 (0 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MT0002343	MTMCF11994	MTMCF11996
Sample Date		Client Info		21 Apr 2021	16 Dec 2016	15 Dec 2016
Machine Age	hrs	Client Info		10758	8594	8594
Oil Age	hrs	Client Info		1000	1138	1138
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		30	21	184
Iron	ppm	ASTM D5185m	>500	594	26	854
Chromium	ppm	ASTM D5185m	>10	8	<1	11
Nickel	ppm	ASTM D5185m		3	<1	5
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	3
Aluminum	ppm	ASTM D5185m	>25	1	<1	5
Lead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>75	80	<1	3
Tin	ppm	ASTM D5185m	>10	2	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

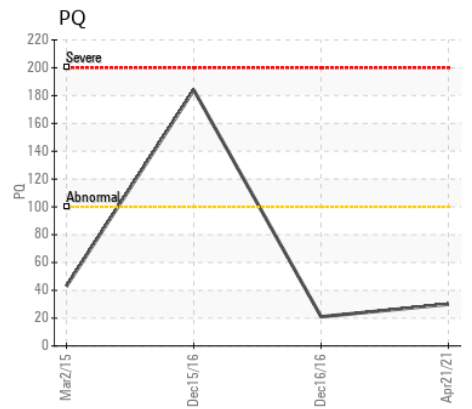
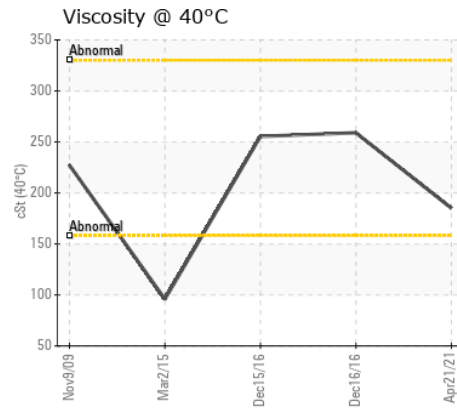
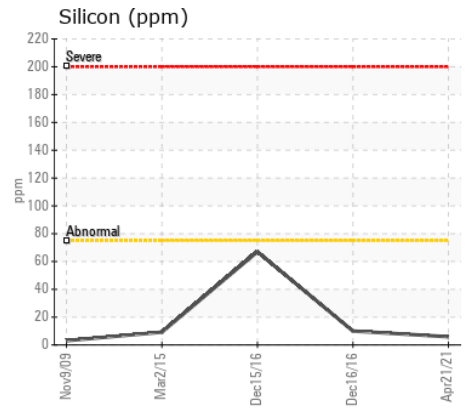
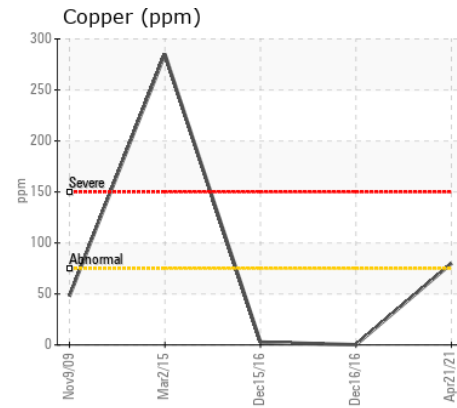
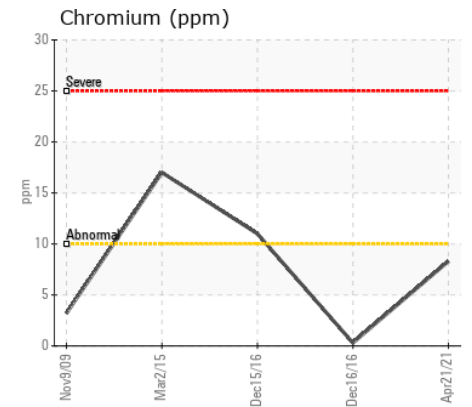
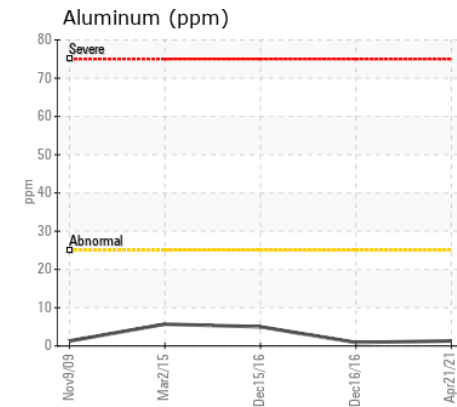
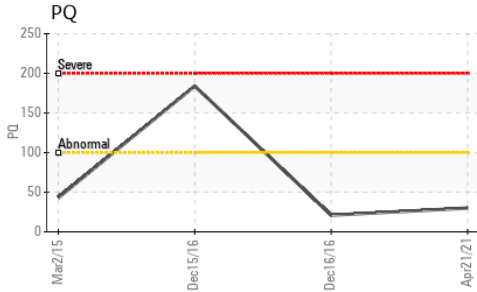
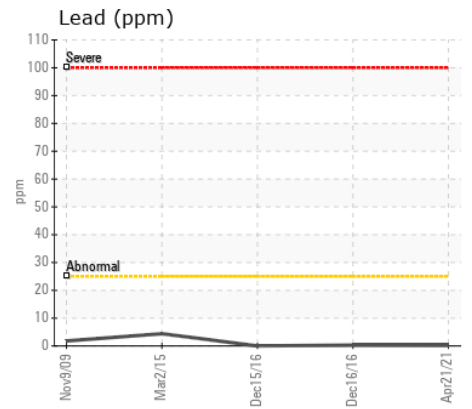
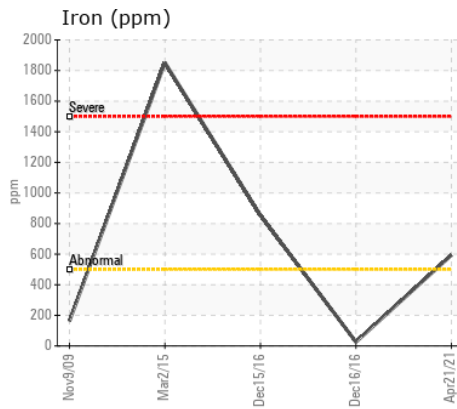
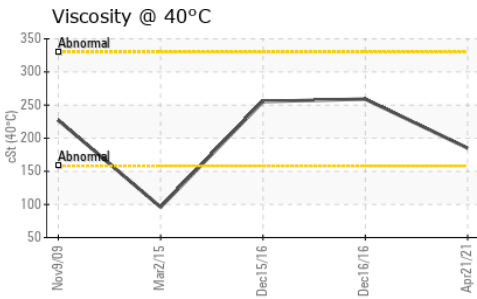
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	6	10	67
Potassium	ppm	ASTM D5185m	>20	<1	1	3
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		3	5	6
Boron	ppm	ASTM D5185m		68	191	146
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		63	1	14
Manganese	ppm	ASTM D5185m		4	<1	5
Magnesium	ppm	ASTM D5185m		0	1	5
Calcium	ppm	ASTM D5185m		29	12	55
Phosphorus	ppm	ASTM D5185m		477	1122	1119
Zinc	ppm	ASTM D5185m		16	4	12
Sulfur	ppm	ASTM D5185m		8938	17074	16472
Visc @ 40°C	cSt	ASTM D445		185	259.0	255.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MT0002343 **Received** : 24 Jun 2021
Lab Number : 05287896 **Tested** : 25 Jun 2021
Unique Number : 9556834 **Diagnosed** : 29 Jun 2021 - Jonathan Hester
Test Package : MOBCE (Additional Tests: PQ)

SHELLY AND SANDS INC.
 3570 SOUTH RIVER RD
 ZANESVILLE, OH
 US 43701
 Contact: PATRICK STEMM
 p.stemm@shellyandsands.com
 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)