



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
Spinorama 2000
 Component
Spindel
 Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. (Customer Sample Comment: Super test)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0387669	---	---
Sample Date		Client Info		01 Feb 2020	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184*		14	---	---
Iron	ppm	ASTM D5185(m)	>20	37	---	---
Chromium	ppm	ASTM D5185(m)	>20	1	---	---
Nickel	ppm	ASTM D5185(m)	>20	<1	---	---
Titanium	ppm	ASTM D5185(m)		<1	---	---
Silver	ppm	ASTM D5185(m)		<1	---	---
Aluminum	ppm	ASTM D5185(m)	>20	4	---	---
Lead	ppm	ASTM D5185(m)	>20	3	---	---
Copper	ppm	ASTM D5185(m)	>20	10	---	---
Tin	ppm	ASTM D5185(m)	>20	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

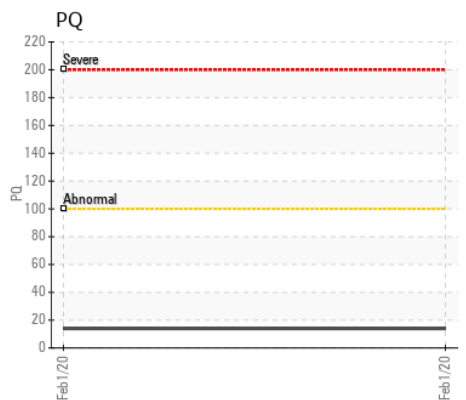
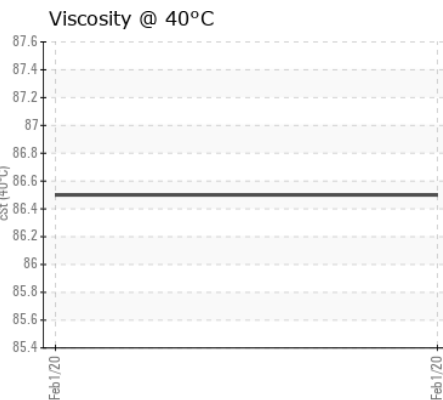
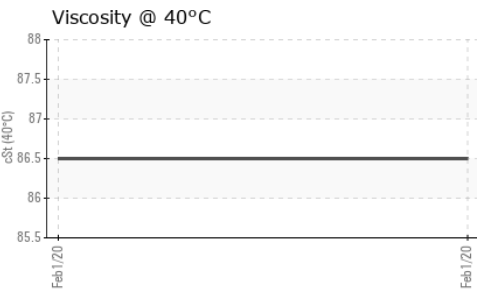
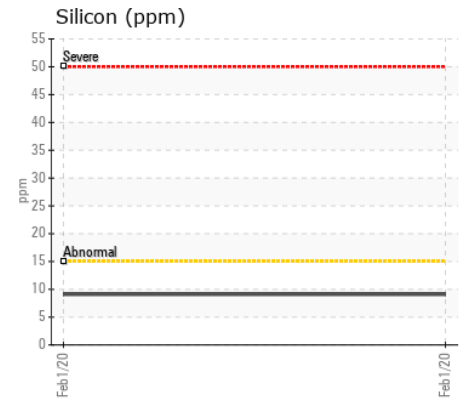
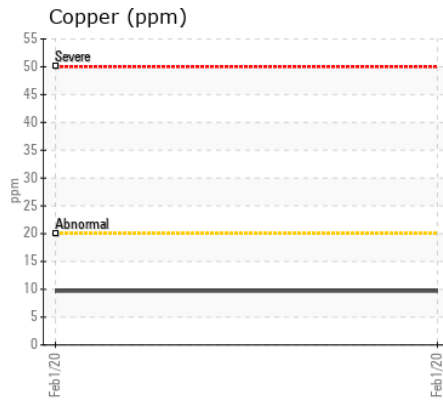
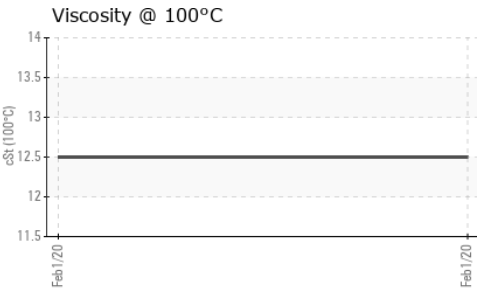
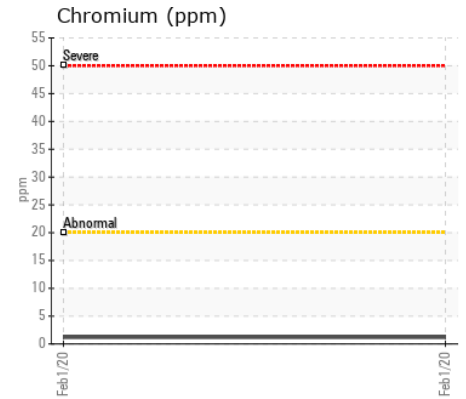
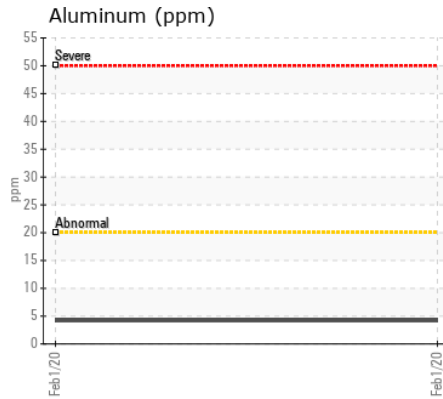
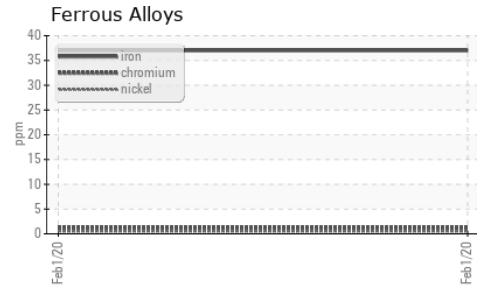
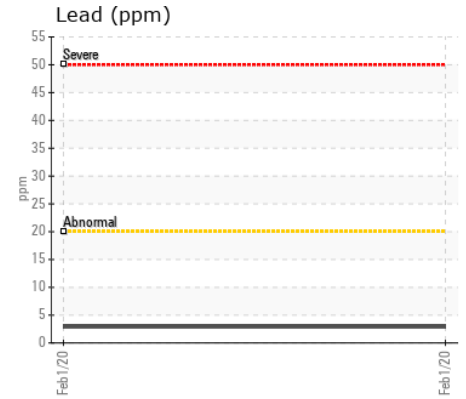
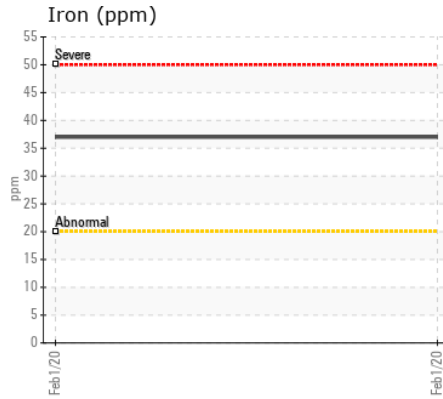
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>15	9	---	---
Potassium	ppm	ASTM D5185(m)	>20	9	---	---
Water		WC Method	>0.1	NEG	---	---
Soot %	%	ASTM D7844*		0.5	---	---
Nitration	Abs/cm	ASTM D7624*		9.5	---	---
Sulfation	Abs/.1mm	ASTM D7415*		24.0	---	---
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*	>0.1	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		14	---	---
Boron	ppm	ASTM D5185(m)		39	---	---
Barium	ppm	ASTM D5185(m)		<1	---	---
Molybdenum	ppm	ASTM D5185(m)		42	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		543	---	---
Calcium	ppm	ASTM D5185(m)		1531	---	---
Phosphorus	ppm	ASTM D5185(m)		929	---	---
Zinc	ppm	ASTM D5185(m)		1084	---	---
Sulfur	ppm	ASTM D5185(m)		3016	---	---
Oxidation	Abs/.1mm	ASTM D7414*		17.9	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		86.5	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		12.5	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		141	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0387669 **Received** : 02 Feb 2020
Lab Number : 02304433 **Tested** : 26 Aug 2019
Unique Number : 4915709 **Diagnosed** : 03 Feb 2020 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FT-IR, KV100, PQ, VI)

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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.