



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
5048
 Component
Left Final Drive
 Fluid
BOBCAT DRIVE MOTOR (--- QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

The chromium level is abnormal. All other metal levels are typical for a new component breaking in.

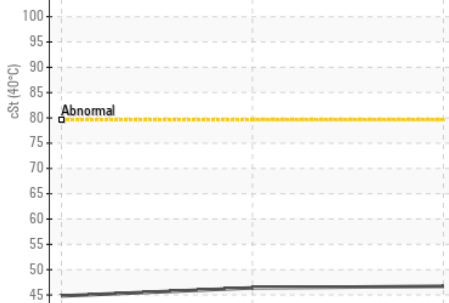
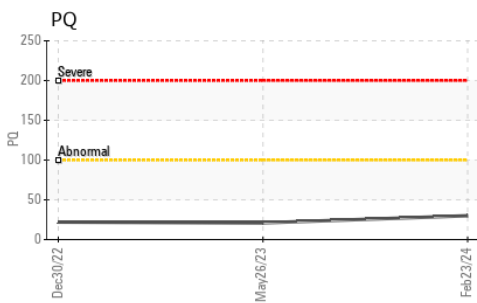
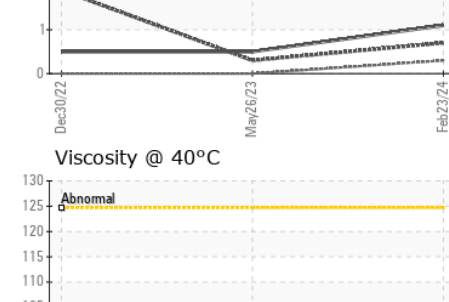
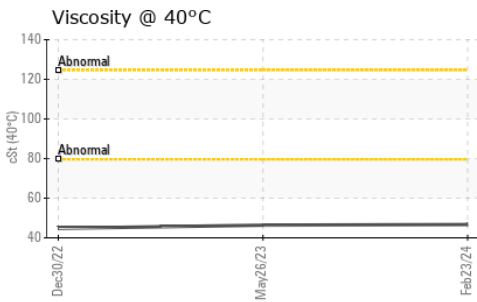
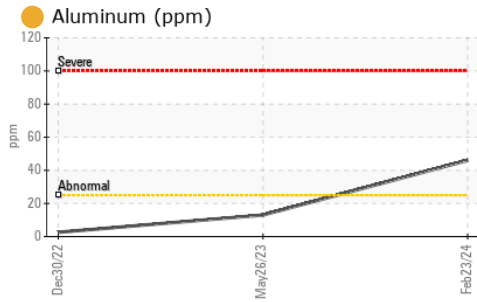
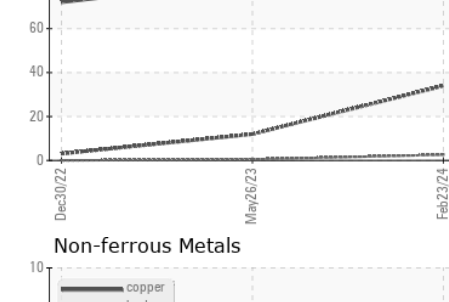
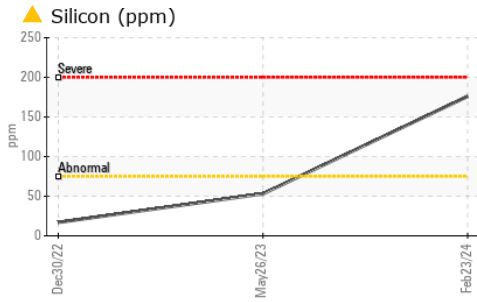
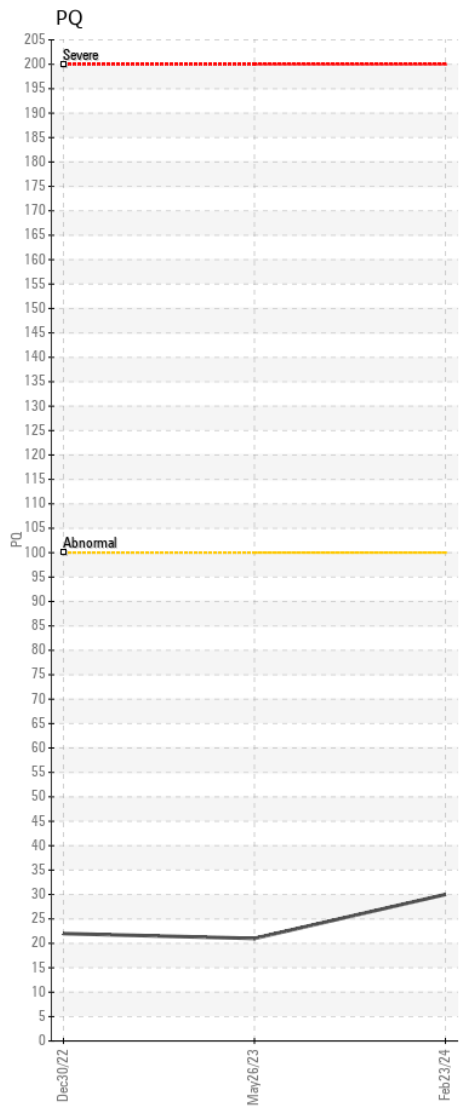
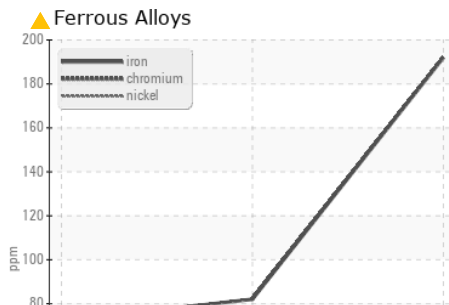
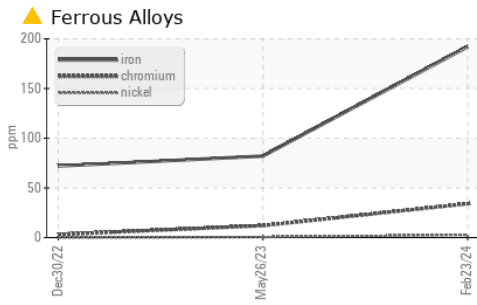
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0195379	JR0159835	JR0152215
Sample Date		Client Info		23 Feb 2024	26 May 2023	30 Dec 2022
Machine Age	hrs	Client Info		1992	1141	524
Oil Age	hrs	Client Info		2000	1000	0
Filter Age	hrs	Client Info		2000	1000	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
PQ		ASTM D8184		30	21	22
Iron	ppm	ASTM D5185m	>500	192	82	72
Chromium	ppm	ASTM D5185m	>10	▲ 34	12	3
Nickel	ppm	ASTM D5185m	>10	3	<1	0
Titanium	ppm	ASTM D5185m		5	1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	● 46	13	3
Lead	ppm	ASTM D5185m	>25	<1	<1	2
Copper	ppm	ASTM D5185m	>50	1	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 176	53	17
Potassium	ppm	ASTM D5185m	>20	12	5	3
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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
Sodium	ppm	ASTM D5185m		6	0	0
Boron	ppm	ASTM D5185m		0	<1	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	1	<1
Manganese	ppm	ASTM D5185m		3	2	3
Magnesium	ppm	ASTM D5185m		10	0	1
Calcium	ppm	ASTM D5185m		185	142	111
Phosphorus	ppm	ASTM D5185m		768	813	321
Zinc	ppm	ASTM D5185m		1152	1121	492
Sulfur	ppm	ASTM D5185m		3789	4098	7313
Visc @ 40°C	cSt	ASTM D445		46.7	46.4	44.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195379 **Received** : 20 Mar 2024
Lab Number : 06123938 **Tested** : 21 Mar 2024
Unique Number : 10938089 **Diagnosed** : 22 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

PATRIOT DEVELOPMENT CORP
 22721 LADBROOK DRIVE STE 120
 STERLING, VA
 US 20166
 Contact: ROBERT MOSS
 robert.moss@patriotdev.net
 T:
 F:

Certificate L2367
 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)