

Machine Id
BOBCAT 47-12
Component
Rear Diesel Engine
Fluid
PETRO CANADA 15W40 (10 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0060129	PC0066046	PC0032450
Sample Date		Client Info		10 Jan 2024	19 Sep 2022	21 Jul 2020
Machine Age	hrs	Client Info		2645	2043	1609
Oil Age	hrs	Client Info		0	0	250
Filter Age	hrs	Client Info		0	0	250
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	13	9	16
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	2	2
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

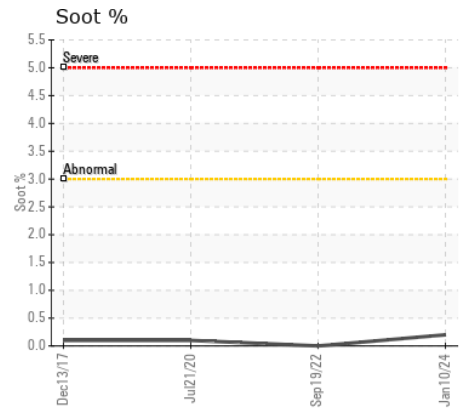
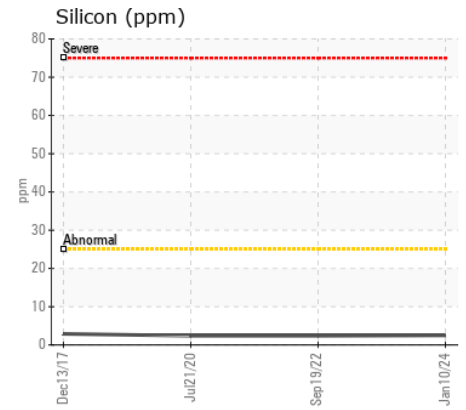
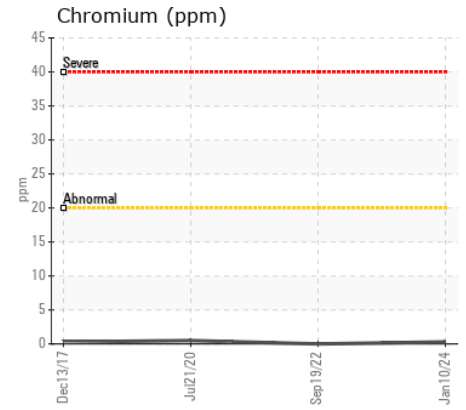
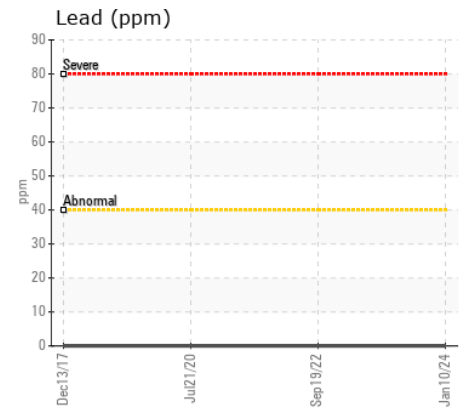
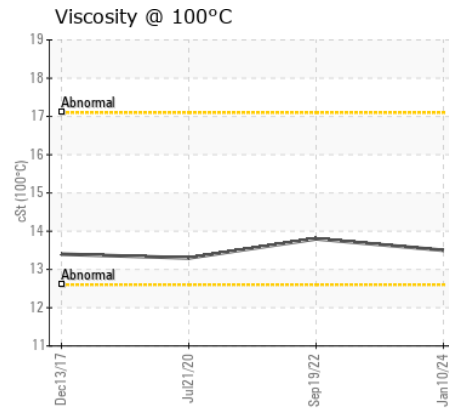
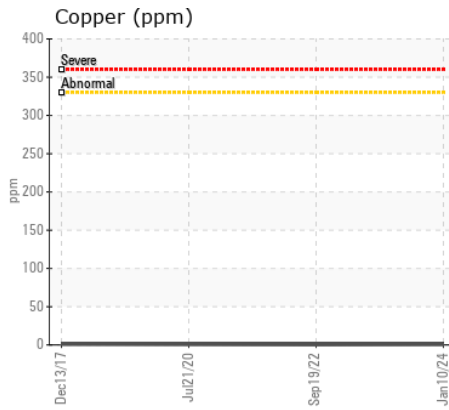
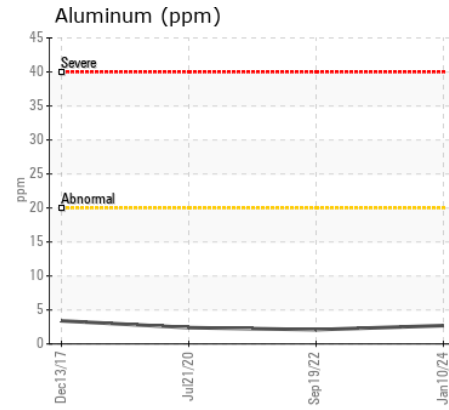
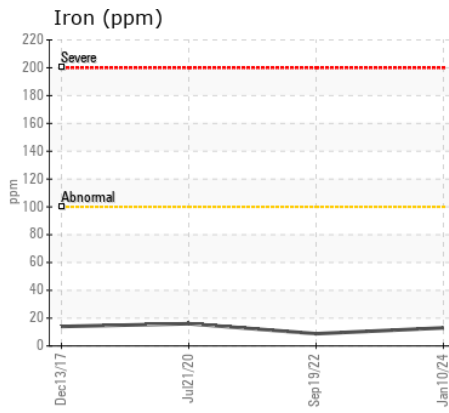
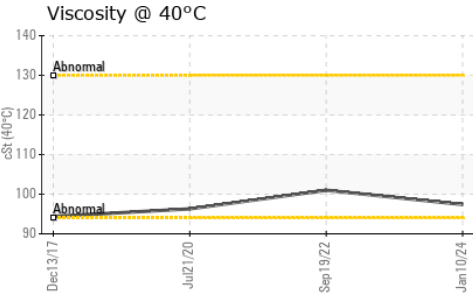
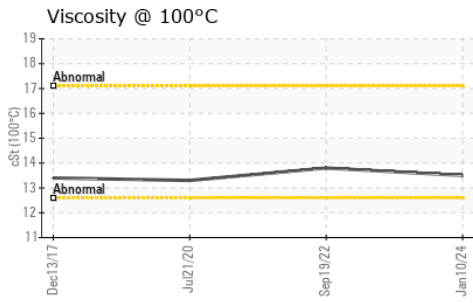
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.2	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.6	8.4	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	19.4	19.2
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 D5185(m)		1	2	<1
Boron	ppm	ASTM D5185(m)		<1	1	7
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		60	58	61
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		1003	966	951
Calcium	ppm	ASTM D5185(m)		1095	1062	1128
Phosphorus	ppm	ASTM D5185(m)		1064	1077	1081
Zinc	ppm	ASTM D5185(m)		1235	1190	1240
Sulfur	ppm	ASTM D5185(m)		2800	2648	2652
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.8	16.4	16.6
Visc @ 40°C	cSt	ASTM D7279(m)		97.4	101	96.3
Visc @ 100°C	cSt	ASTM D7279(m)		13.5	13.8	13.3
Viscosity Index (VI)	Scale	ASTM D2270*		138	137	137



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0060129
Lab Number : 02616603
Unique Number : 5733713
Test Package : MOB 1 (Additional Tests: KV40, VI)

TRUCK AND EQUIPMENT SOLUTION
 2 BERTRAM INDUSTRIAL PKWY.
 MIDHURST, ON
 CA L9X 1L2
 Contact: Julie Holden
 parts@tesbarrie.com
 T: (705)792-7620
 F: (705)725-5425

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.