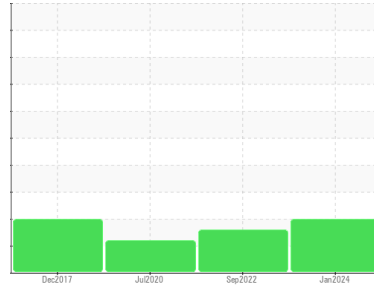


Machine Id
BOBCAT 47-12

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 46 (50 LTR)



DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC0030520	PC0022918	PC0022909
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	1609
Oil Changed	Client Info			Not Changed	Not Changed	Not Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

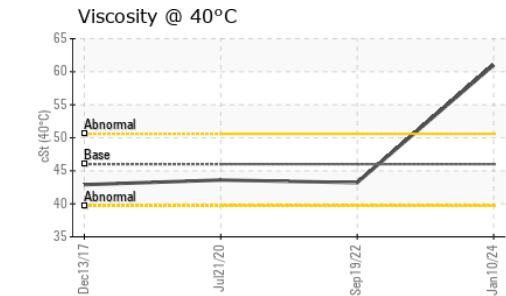
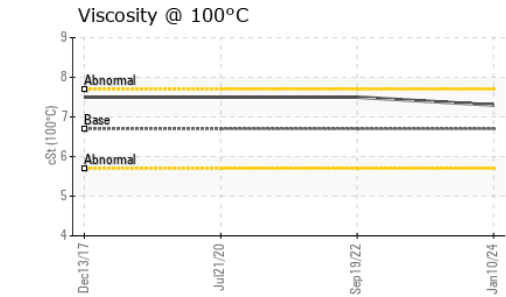
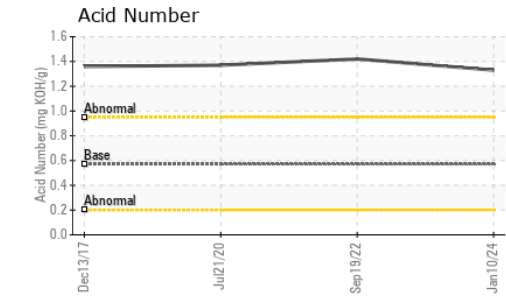
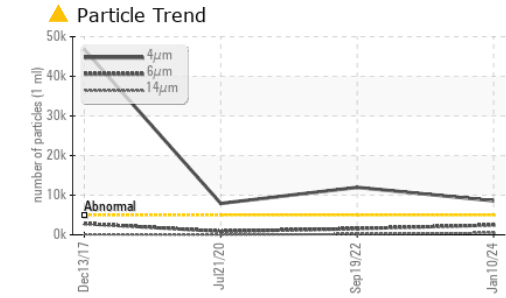
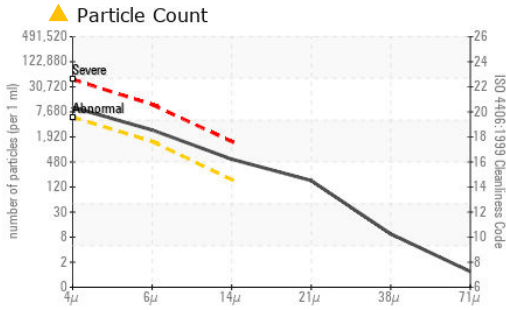
CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	---
Iron	ppm	ASTM D5185(m)	>20	23	20	18
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	5	6	5
Lead	ppm	ASTM D5185(m)	>10	2	2	2
Copper	ppm	ASTM D5185(m)	>75	27	32	31
Tin	ppm	ASTM D5185(m)	>10	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	<1	1	<1
Barium	ppm	ASTM D5185(m)	5	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	5	2	3	3
Manganese	ppm	ASTM D5185(m)		<1	1	1
Magnesium	ppm	ASTM D5185(m)	25	47	59	61
Calcium	ppm	ASTM D5185(m)	200	232	193	184
Phosphorus	ppm	ASTM D5185(m)	300	808	894	904
Zinc	ppm	ASTM D5185(m)	370	1029	1111	1158
Sulfur	ppm	ASTM D5185(m)	2500	4555	4934	5065
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	4	6	6
Sodium	ppm	ASTM D5185(m)		4	5	4
Potassium	ppm	ASTM D5185(m)	>20	2	2	2

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0030520
Lab Number : 02616639
Unique Number : 5733749
Test Package : IND 2 (Additional Tests: KV100, PQ, 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.

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 8593	▲ 11973	▲ 7914
Particles >6µm	ASTM D7647	>1300	▲ 2462	▲ 1563	872
Particles >14µm	ASTM D7647	>160	▲ 492	▲ 168	43
Particles >21µm	ASTM D7647	>40	▲ 151	55	11
Particles >38µm	ASTM D7647	>10	8	7	0
Particles >71µm	ASTM D7647	>3	1	2	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/18/16	▲ 21/18/15	▲ 20/17/13

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	0.57	1.33	1.42	1.37

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar Visual*	NONE	NONE	NONE	NONE
Silt	scalar Visual*	NONE	NONE	NONE	NONE
Debris	scalar Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar Visual*	NONE	NONE	VLITE	NONE
Appearance	scalar Visual*	NORML	NORML	NORML	NORML
Odor	scalar Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar Visual*		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	46	61	43.2	▲ 43.6
Visc @ 100°C	cSt ASTM D7279(m)	6.7	7.3	7.5	▲ 7.5
Viscosity Index (VI)	Scale ASTM D2270*	97	71	140	138

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					