WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

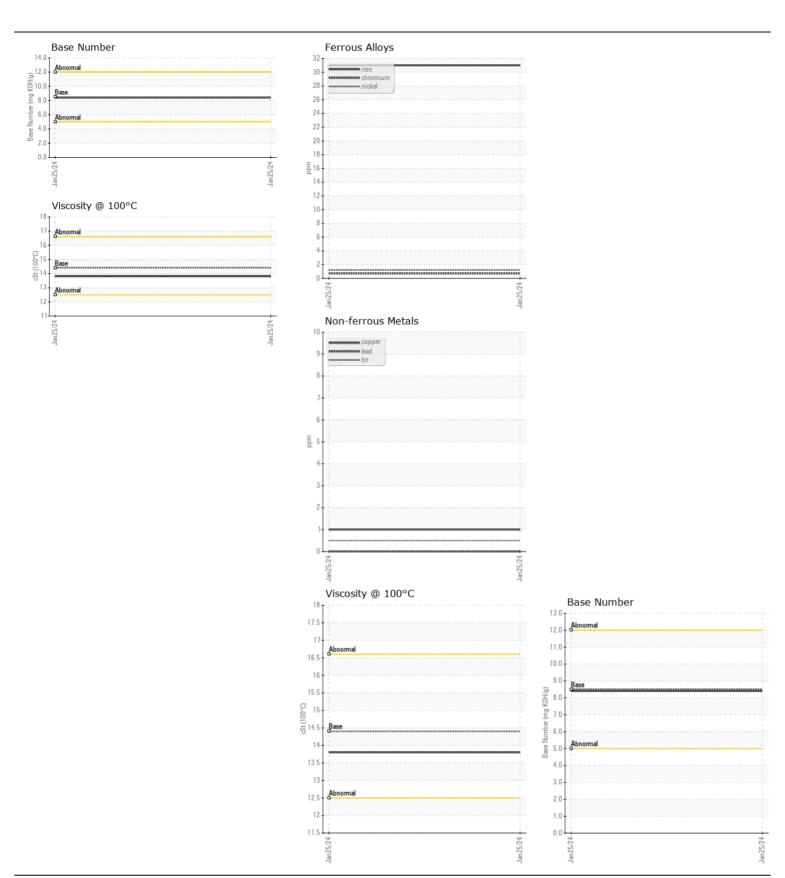
{UNASSIGNED}

Bobcat T770 Bobcat T770 (S/N AT6311812)

Component Rear Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (14 QTS)

Test	DIESEL ENGINE OIL SAE 15W40 (14 QTS)					.,		
Resample at the noxt service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Sample Date	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	Historv2
Resample at the next service interval to monitor. Please specily the brand, type, and viscosity of the oil on your next sample. Sample Date Machine Age hrs Client Info 344								
Machine Age hrs	'	Sample Date				25 Jan 2024		
Filter Age hrs Client Info Changed Client Info Client Info Changed Client Info			hrs	Client Info		3401		
Oil Changed Chent Info Changed Changed		Oil Age	hrs	Client Info		344		
Filter Changed Sample Status		Filter Age	hrs	Client Info		344		
NORMAL N		Oil Changed		Client Info		Changed		
Iron		Filter Changed		Client Info		Changed		
All component wear rates are normal. Chromium ppm ASTM D5165m > 2		Sample Status				NORMAL		
All component wear rates are normal. Chromium ppm ASTM D5165m > 2	WEAD							
Nickel ppm ASTM D5185m < 1	WEAR							
Note Pitter Pit	All component wear rates are normal.							
Silver ppm ASTM 05185m >20 4					>4			
Aluminum ppm ASTM 05/85m >20 4								
Lead			• •					
Copper								
Tin			• •					
Vanadium ppm ASTM D5185m value NONE NONE Value NONE NONE Value NONE NONE Value NONE NONE Value NONE NONE								
White Metal Yellow Metal Scalar Visual NONE NONE NON					>15			
Silicon ppm ASTM D5185m >25 5					NONE			
Silicon ppm ASTM D5185m >25 5								
Potassium ppm ASTM D5185m >20 <1		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 <1	CONTAMINATION	Silicon	nnm	ASTM D5185m	>25	5		
Fuel WC Method VC Method	CONTAMINATION		• •					
Water WC Method So.2 NEG Glycol WC Method So.2 NEG WC Method Sout % % "ASTM D7844 >3 0.2 Nitration Abs/cm "ASTM D7845 >20 9.0 Sulfation Abs/mm "ASTM D7845 >20 19.3 Sulfation Abs/mm "ASTM D7845 >0 19.3 Sulfation Abs/mm ASTM D7845 >0 NONE Sulfation Abs/mm ASTM D7845 >0 3 Sulfation Abs/mm ASTM D5856 10 0 Magnesium ppm ASTM D5856 10 0 62 Magnesium ppm ASTM D5856 450 979 Phosphorus ppm ASTM D5856 1306 Sulfur ppm ASTM D5856 1306 Sulfur ppm ASTM D5856 4250 3049 Oxidation Abs/mm ASTM D896 8.5 8.4	There is no indication of any contamination in the oil.		ppiii					
Glycol								
Soot %					7 U.L			
Nitration			%		>3			
Sulfation Abs/.tmm *ASTM D7415 >30 19.3								
Silt scalar *Visual NONE NONE NONE Sand/Dit Scalar *Visual NONE NONE NONE Sand/Dit Scalar *Visual NONE NONE Sand/Dit Scalar *Visual NONE NONE Scalar *Visual NONE NONE Scalar *Visual NONE NONE Scalar *Visual NORML NORML Scalar								
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NORML NORML Scalar *Visual NORML NORML Scalar *Visual NORML NORML Scalar *Visual NORML NORML Scalar *Visual NORML *Visual *Visual NORML *Visual *Visual NORML *Visual *Vi								
Sand/Dirt Scalar *Visual NONE NONE NORML Appearance Scalar *Visual NORML NOR		Debris		*Visual	NONE	NONE		
Appearance		Sand/Dirt	scalar	*Visual				
Emulsified Water scalar *Visual >0.2 NEG		Appearance	scalar	*Visual	NORML			
Sodium ppm ASTM D5185m >158 1		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 250 3		Emulsified Water	scalar	*Visual	>0.2	NEG		
Boron ppm ASTM D5185m 250 3								
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Barium ppm ASTM D5185m 10 62 Molybdenum ppm ASTM D5185m 100 62 Manganese ppm ASTM D5185m 450 979 Calcium ppm ASTM D5185m 3000 1070 Phosphorus ppm ASTM D5185m 1150 1093 Zinc ppm ASTM D5185m 1350 1306 Sulfur ppm ASTM D5185m 4250 3049 Oxidation Abs/.1mm *ASTM D7414 >25 16.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4	FLUID CONDITION		• •					
oil. The condition of the oil is suitable for further service. Molybdenum ppm ASTM D5185m 100 62 Magnesium ppm ASTM D5185m 450 979 Calcium ppm ASTM D5185m 3000 1070 Phosphorus ppm ASTM D5185m 1150 1093 Zinc ppm ASTM D5185m 1350 1306 Sulfur ppm ASTM D5185m 4250 3049 Oxidation Abs/.1mm *ASTM D7414 >25 16.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4	The BN result indicates that there is suitable alkalinity remaining in the							
Manganese ppm ASTM D5185m <1								
Magnesium ppm ASTM D5185m 450 979 Calcium ppm ASTM D5185m 3000 1070 Phosphorus ppm ASTM D5185m 1150 1093 Zinc ppm ASTM D5185m 1350 1306 Sulfur ppm ASTM D5185m 4250 3049 Oxidation Abs/.1mm *ASTM D7414 >25 16.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4		•			100			
Calcium ppm ASTM D5185m 3000 1070 Phosphorus ppm ASTM D5185m 1150 1093 Zinc ppm ASTM D5185m 1350 1306 Sulfur ppm ASTM D5185m 4250 3049 Oxidation Abs/.1mm *ASTM D7414 >25 16.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4		-			4=0			
Phosphorus ppm ASTM D5185m 1150 1093 Zinc ppm ASTM D5185m 1350 1306 Sulfur ppm ASTM D5185m 4250 3049 Oxidation Abs/.1mm *ASTM D7414 >25 16.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4		9						
Zinc ppm ASTM D5185m 1350 1306 Sulfur ppm ASTM D5185m 4250 3049 Oxidation Abs/.1mm *ASTM D7414 >25 16.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4								
Sulfur ppm ASTM D5185m 4250 3049 Oxidation Abs/.1mm *ASTM D7414 >25 16.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4		•						
Oxidation Abs/.1mm *ASTM D7414 >25 16.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4			• •					
Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4								
VISC @ 100°C CSt ASTM D445 14.4 13.8								
		VISC @ 100 C	COL	A311VI D443	14.4	13.0		







Laboratory Sample No. Lab Number

: 06073627 Unique Number : 10850304 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DE0000718 Recieved : 30 Jan 2024 : 30 Jan 2024 Diagnosed Diagnostician : Wes Davis

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)

EARTHTECH DEVELOPERS

180 SOUTH AVE BROCKPORT, NY US 14420 Contact: R. DALLE rdalle69@yahoo.com T: (585)303-8937