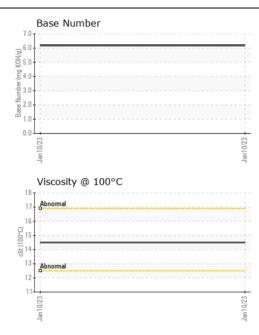
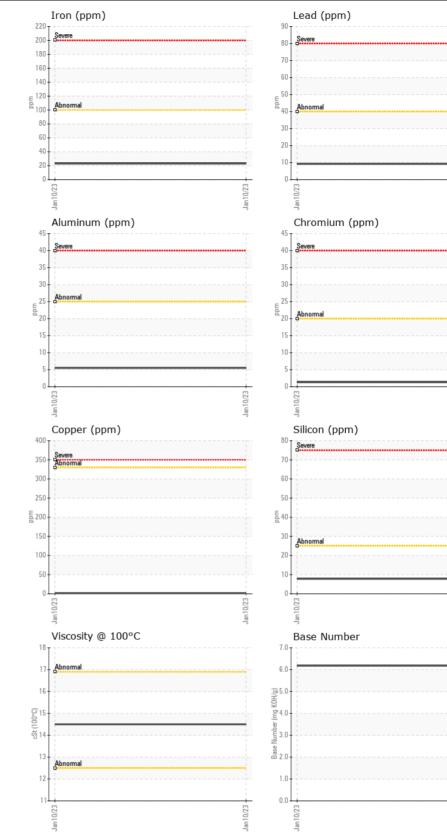


Machine Id CATERPILLAR 568 414 (S/N BRB00298) Component Diesel Engine TRC PRO-SPEC V SYN BLEND 15W40 (10 GAL)

TRC PRO-SPEC V SYN BLEND 15W40 (10 GAL	.)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR05753021		
	Sample Date		Client Info		10 Jan 2023		
	Machine Age	mls	Client Info		12986		
	Oil Age	mls	Client Info		511		
	Filter Age	mls	Client Info		511		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m		23		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		6		
	Lead	ppm	ASTM D5185m		9		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	> 25	8		
CONTAMINATION	Potassium	ppm	ASTM D5185m		3		
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method				
	Water		WC Method		<1.0 NEG		
			WC Method	>0.2	NEG		
	Glycol Soot %	0/		. 2	0.9		
	Nitration	%	*ASTM D7844 *ASTM D7624		12.7		
	Sulfation	Abs/cm			27.0		
	Silt	Abs/.1mm	*ASTM D7415 *Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
		scalar					
	Sand/Dirt	scalar scalar	*Visual *Visual	NONE NORML	NONE NORML		
	Appearance Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
		Scalai	visuai	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
	Boron	ppm	ASTM D5185m		29		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		<1		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		14		
	Calcium	ppm	ASTM D5185m		2720		
	Phosphorus	ppm	ASTM D5185m		1012		
	Zinc	ppm	ASTM D5185m		1251		
	Sulfur	ppm	ASTM D5185m		4495		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.1		
			ASTM D2896	-	6.18		
	Visc @ 100°C	cSt	ASTM D445		14.5		







BIGHORN LOGGING CORP Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 13820 NW MAIN ST : TR05753021 : 27 Jan 2023 Lab Number : 05753021 Tested : 02 Feb 2023 BANKS, OR Unique Number : 10312625 : 02 Feb 2023 - Angela Borella US 97106 Diagnosed Test Package : MOB 2 Contact: JEFF WARREN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711. * - 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)

Contact/Location: JEFF WARREN - BIGBAN