

WEAR ATTENTION CONTAMINATION ABNORMAL FLUID CONDITION ATTENTION

Area Store 1 - Cowen [136262] Machine Id BANDIT 2590 4FMUS3020MR517323 Component Diesel Engine Fluid

CAT DIESEL ENGINE OIL 15W40 (5 GAL)

RECOMMENDATION	
----------------	--

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.

-	-	-	-	-	-	-	-	-	-	-	-	-	•
1	V	Ν	7)	Δ		F	2				

Metal levels are typical for a new component breaking in.

CO	ΛΙΝΑ ΄	
CO	AFILIN	

FLUID CONDITION

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. Light fuel dilution occurring.

					/			
Test		UOM	Method	Limit/Abn	Cι	urrent	History1	History2
Sample	Number		Client Info		LE	C0036945		
Sample	e Date		Client Info		16	Feb 2023		
Machin	ie Age	hrs	Client Info		39	9		
Oil Age	;	hrs	Client Info		39	9		
Filter A	ge	hrs	Client Info		39	9		
Oil Cha	anged		Client Info		No	t Changd		
Filter C	hanged		Client Info		No	t Changd		
Sample	e Status				AB	NORMAL		
Iron		ppm	ASTM D5185m	>100		51		
Chrom	ium	ppm	ASTM D5185m	>20		2		
Nickel		ppm	ASTM D5185m	>4		<1		
Titaniu	m	ppm	ASTM D5185m			<1		
Silver		ppm	ASTM D5185m	>3		<1		
Alumin	um	ppm	ASTM D5185m	>20		17		
Lead		ppm	ASTM D5185m	>40		2		
Copper	r	ppm	ASTM D5185m	>330		8		
Tin		ppm	ASTM D5185m	>15		2		
Vanadi	-	ppm	ASTM D5185m			0		
White I		scalar	*Visual	NONE		NONE		
Yellow	Metal	scalar	*Visual	NONE		NONE		
0:1:				100		20		
Silicon Potass		ppm	ASTM D5185m ASTM D5185m	>!20		30 15		
Fuel	lum	ppm	ASTM D3165III ASTM D3524			-		
		%		>5		3.0		
Water			WC Method WC Method	>0.2		NEG		
Glycol		0/		0		NEG		
Soot % Nitratio		%	*ASTM D7844 *ASTM D7624	>3		0.5 11.2		
		Abs/cm	*ASTM D7624	>20				
Sulfatio	זו	Abs/.1mm		>30		21.7		
Silt		scalar	*Visual *Visual	NONE NONE		NONE NONE		
Debris Sand/D	N:	scalar				NONE		
	-	scalar scalar	*Visual	NONE		NORML		
Appear Odor	ance		*Visual *Visual	NORML				
	ed Water	scalar	*Visual			NORML NEG		
Emuisin		scalar	visual	>0.2				
Sodium	ı	ppm	ASTM D5185m			7		
Boron		ppm	ASTM D5185m			45		
Barium		ppm	ASTM D5185m			0		
Molybo	lenum	ppm	ASTM D5185m			36		
Manga		ppm	ASTM D5185m			2		
Magne		ppm	ASTM D5185m			443		
Calciur		ppm	ASTM D5185m			1760		
Phosph		ppm	ASTM D5185m			800		
Zinc		ppm	ASTM D5185m	1460		961		
Sulfur		ppm	ASTM D5185m			3276		
Oxidati	on	Abs/.1mm	*ASTM D7414	>25		21.0		
	mber (BN)	mg KOH/g	ASTM D2896	11.3		8.2		
	100°C	cSt	ASTM D445	15.5		11.9		
	-		-	-	<			

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 105 TENNIS CENTER DR. : LEC0036945 : 20 Feb 2023 ñ Lab Number : 05771689 : 22 Feb 2023 Tested MARIETTA, OH : 22 Feb 2023 - Jonathan Hester US 45750-9765 Unique Number : 10346306 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: LEANNE KENDALL Certificate L2367 KendalLeanne@lec1.com 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (740)373-5570

Page 2 of 2