**OIL ANALYSIS REPORT** 

**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

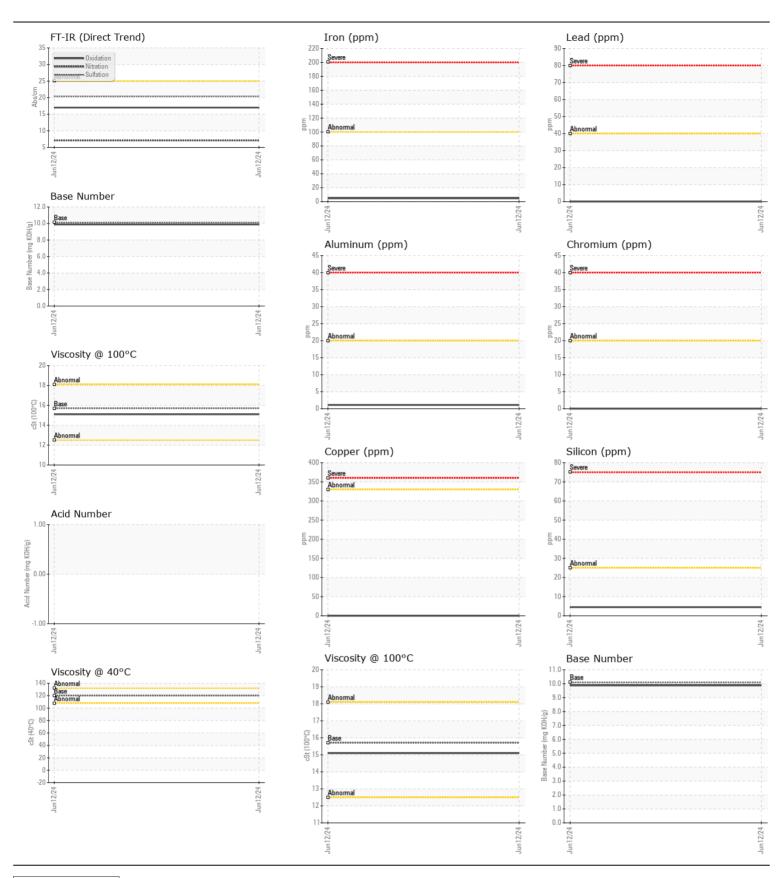
Machine Id

## **CASE 1150C CASE 1150C**

Diesel Engine

SHELL BOTELLA T 15W40 (4 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06226463		
	Sample Date		Client Info		12 Jun 2024		
	Machine Age	hrs	Client Info		3900		
	Oil Age	hrs	Client Info		100		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	5		
VEAIT	Chromium	ppm	ASTM D5185m		0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	77	0		
	Silver	ppm	ASTM D5185m	~3	0		
	Aluminum	ppm	ASTM D5185m		1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m	7.0	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		4		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		8		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method	-	NEG		
	Soot %	%	*ASTM D7844		0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	7.1		
	Sulfation	Abs/.1mm	*ASTM D7415		20.4		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		2		
	Boron	ppm	ASTM D5185m	316	163		
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		0		
	Molybdenum	ppm	ASTM D5185m	1.2	2		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	24	56		
	Calcium	ppm	ASTM D5185m	2292	2199		
	Phosphorus	ppm	ASTM D5185m	1064	1004		
	Zinc	ppm	ASTM D5185m	1160	1178		
	Sulfur	ppm	ASTM D5185m	4996	4140		
	Oxidation	Abs/.1mm	*ASTM D7414		17.0		
	Base Number (BN)	mg KOH/g	ASTM D2896	10.1	9.88		
	Visc @ 100°C	cSt	ASTM D445		15.1		





Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06226463 Unique Number: 11109956

: TR06226463

Received **Tested** 

: 02 Jul 2024 : 05 Jul 2024 : 05 Jul 2024 - Don Baldridge Diagnosed

Test Package : MOB 2 ( Additional Tests: KV40, TAN Man )

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. **MOUNTAIN FRONT RANCH** 

68 SHILOH DR CANON CITY, CO US 81212

Contact: TIM ZORTMAN TMZORT57@GMAIL.COM T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: