

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

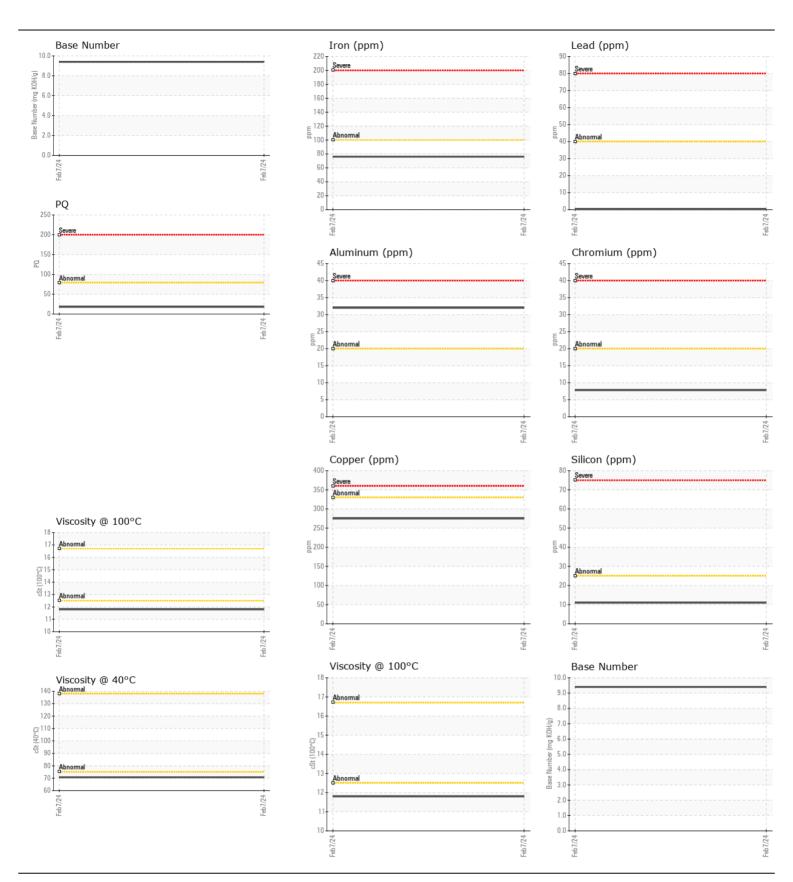


BELL B45E B93A645EC03408469

Component Diesel Engine

{not provided} (--- GAL)

{not provided} (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TIECOMMENDATION	Sample Number	OOW	Client Info	LITTIO / NOT	BE0023752		
Oil and filter change at the time of sampling has been noted. Resample	Sample Date		Client Info		07 Feb 2024		
at the next service interval to monitor. Please specify the brand, type,	Machine Age	hrs	Client Info		495		
and viscosity of the oil on your next sample.	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	PQ		ASTM D8184		18		
Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m		76		
wotai iovois are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		8		
	Nickel	ppm	ASTM D5185m	>4	1		
	Titanium	ppm	ASTM D5185m	0	<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		32		
	Lead Copper	ppm	ASTM D5185m ASTM D5185m		<1 275		
	Tin	ppm	ASTM D5185m		4		
	Vanadium	ppm	ASTM D5185m	>10	<1		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	·		v isuai				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	11		
	Potassium	ppm	ASTM D5185m	>20	22		
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	10.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
I LOID CONDITION	Boron	ppm	ASTM D5185m		18		
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		0		
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		4		
	Manganese	ppm	ASTM D5185m		6		
	Magnesium	ppm	ASTM D5185m		110		
	Calcium	ppm	ASTM D5185m		2406		
	Phosphorus	ppm	ASTM D5185m		799		
	Zinc	ppm	ASTM D5185m		925		
	Sulfur	ppm	ASTM D5185m		2312		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.8		
	Base Number (BN)	mg KOH/g	ASTM D2896		9.4		
	Visc @ 40°C	cSt	ASTM D445		70.7		
	Visc @ 100°C	cSt	ASTM D445		11.8		
	Viscosity Index (VI)	Scale	ASTM D2270		163		





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Lab Number : 06121525 Unique Number: 10930358

: BE0023752

Received **Tested** Diagnosed

: 18 Mar 2024

: 25 Mar 2024

: 25 Mar 2024 - Jonathan Hester

Test Package : MOBCE (Additional Tests: FuelDilution, PercentFuel) 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)

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