

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

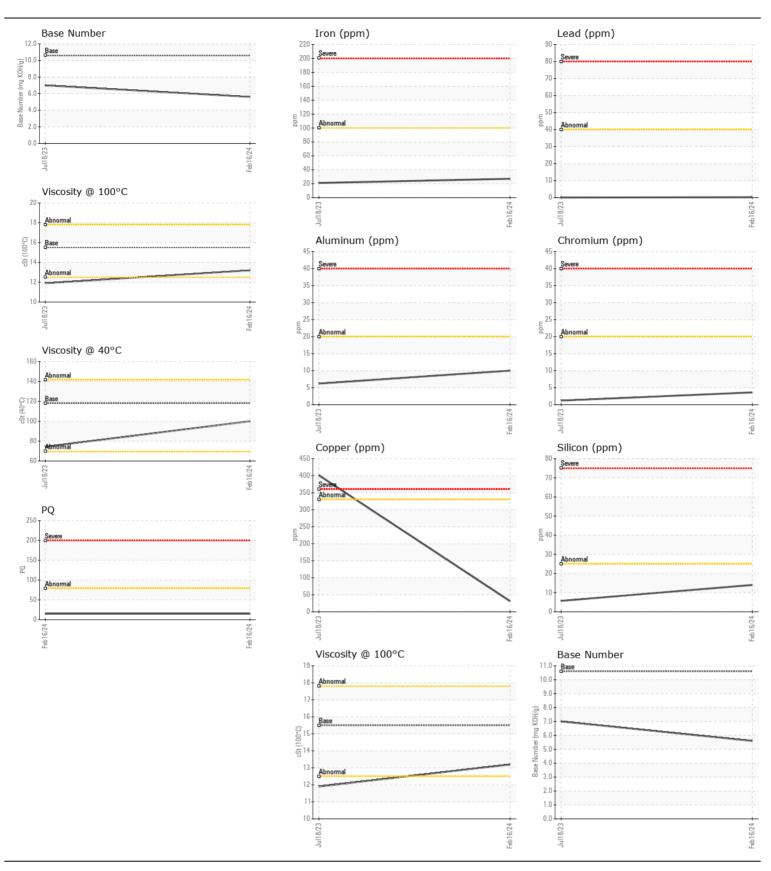


BELL B50E B93A650EK03408215

Component Diesel Engine

SHELL ROTELLA T3 15W40 (--- GAL)

SHELL ROTELLA T3 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TIEGOWIWENDATION	Sample Number	OOW	Client Info	Little / toll	BE0020394	BE0020392	,
Oil and filter change at the time of sampling has been noted. Resample	Sample Date		Client Info		16 Feb 2024	18 Jul 2023	
at the next service interval to monitor.	Machine Age	hrs	Client Info		1486	438	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	PQ		ASTM D8184		15		
All component wear rates are normal.	Iron	ppm	ASTM D5185m		27	21	
	Chromium	ppm	ASTM D5185m		4	1	
	Nickel	ppm	ASTM D5185m	>4	1	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		<1	<1	
	Aluminum	ppm	ASTM D5185m		10	6	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m		31	<u>401</u>	
	Tin	ppm	ASTM D5185m	>15	2	1	
	Vanadium	ppm	ASTM D5185m	NIONIE	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	14	6	
CONTAMINATION	Potassium	ppm	ASTM D5185m		29	12	
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method	>5	<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	7 0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	9.6	
	Sulfation	Abs/.1mm	*ASTM D7415		19.9	20.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
ELUID CONDITION			40TH DE 10E		_	,	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	10	3	<1	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		42	70	
oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		1	0	
	Molybdenum	ppm	ASTM D5185m	10	33	12	
	Manganese	ppm	ASTM D5185m	10	1	1	
	Magnesium Calcium	ppm	ASTM D5185m		332	665	
	Phosphorus	ppm	ASTM D5185m ASTM D5185m		3088 1371	1566 740	
	Zinc	ppm	ASTM D5185m		1797	869	
	Sulfur	ppm	ASTM D5185m		5953	2948	
	Oxidation	Abs/.1mm	*ASTM D3163111		12.5	17.2	
	Base Number (BN)				5.6	7.0	
	Visc @ 40°C	cSt	ASTM D2030		100	7.0	
	Visc @ 100°C	cSt	ASTM D445		13.2	11.9	
	Viscosity Index (VI)	Scale	ASTM D2270		129	155	
						. 50	





Certificate L2367

Laboratory

Sample No. : BE0020394 Lab Number : 06101494 Unique Number : 10899724 Test Package : MOBCE

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Feb 2024 **Tested** : 29 Feb 2024

: 29 Feb 2024 - Jonathan Hester Diagnosed

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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