

WEAR CONTAMINATION FLUID CONDITION

UOM Method

Limit/Abn Current

NORMAL NORMAL NORMAL

History2

History1



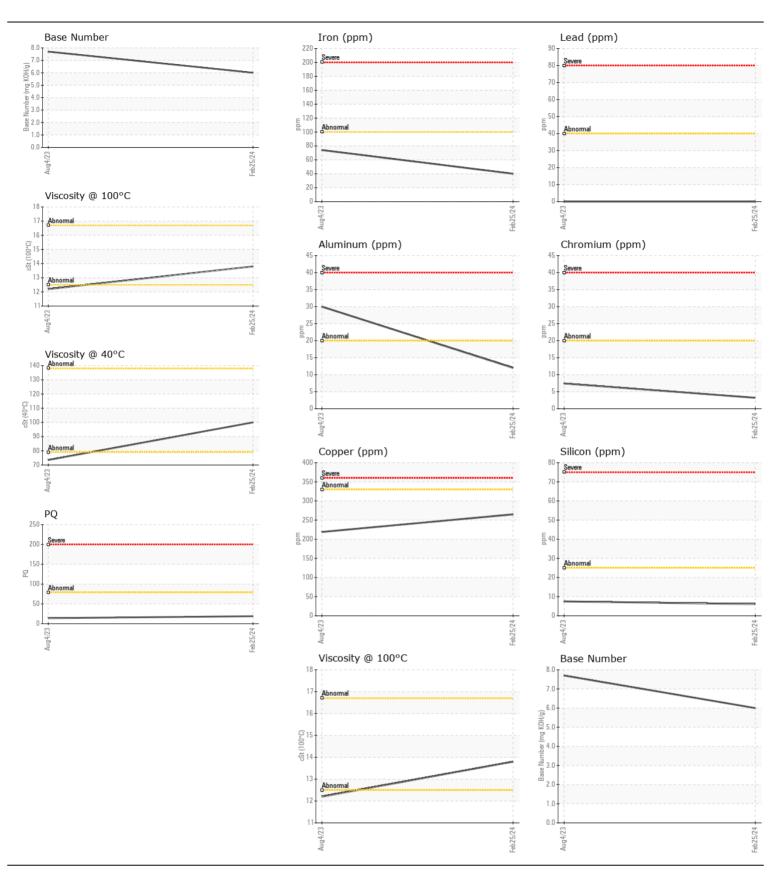
BELL B45E B93A645ET03308079

Component Diesel Engine

SYNERGY 15W40 (--- GAL)

RECOMMENDATION	rest	UOW	Method	LIMIT/ADN	Current	HISTORY	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		BE0016864	BE0016863	
	Sample Date		Client Info		25 Feb 2024	04 Aug 2023	
	Machine Age	hrs	Client Info		943	478	
	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		0.10111		NORMAL	NORMAL	
	····						
WEAR	PQ		ASTM D8184	>79	19	14	
TV EPAIT	Iron	ppm	ASTM D5185m		40	74	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		3	7	
	Nickel	ppm	ASTM D5185m		0	2	
	Titanium	ppm	ASTM D5185m	∠ ⊤	<1	<1	
	Silver	• • •	ASTM D5185m	- 3	0	<1	
		ppm					
	Aluminum	ppm	ASTM D5185m		12	30	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		265	219	
	Tin	ppm	ASTM D5185m	>15	<1	3	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	6	6	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.7	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	10.0	11.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7	22.8	
	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		*Visual	>0.2	NEG	NEG	
	Lindishica Water		Vioudi			IVEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	3	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		178	17	
	Barium	ppm	ASTM D5185m		9	0	
	Molybdenum	ppm	ASTM D5185m		77	<1	
	Manganese		ASTM D5185m		2	7	
		ppm					
	Magnesium	ppm	ASTM D5185m		362 1576	91	
	Calcium	ppm	ASTM D5185m		1576	2450	
	Phosphorus	ppm	ASTM D5185m		897	679	
	Zinc	ppm	ASTM D5185m		1132	826	
	Sulfur	ppm	ASTM D5185m		2447	2304	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	20.2	
	Base Number (BN)	0 0			6.0	7.7	
	Visc @ 40°C	cSt	ASTM D445		100	73.5	
	Visc @ 100°C	cSt	ASTM D445		13.8	12.2	
	1.00 @ .00 0		-				

Test





Laboratory Sample No.

Lab Number : 06100032 Unique Number: 10898262

: BE0016864

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024 : 27 Feb 2024 **Tested** : 27 Feb 2024 - Don Baldridge Diagnosed

Test Package : MOBCE

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

20245 Ewing Road Ewing, IL US 62836 Contact: JOSH

Oak Hills

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