

## NORMAL WEAR NORMAL CONTAMINATION FLUID CONDITION NORMAL



## Machine Id BELL B40E B93A640EA03007599

Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		BE0001010	BE0000999	BE0000995
	Sample Date		Client Info		08 Feb 2024	25 Sep 2023	10 Jul 2023
	Machine Age	hrs	Client Info		4505	4001	3503
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	PQ		ASTM D8184	>79	19	12	12
	Iron	ppm	ASTM D5185m	>100	20	10	20
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	<1	1
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	6	3	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		9	8	9
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m	1.0	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0""					0	
	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		5 14	3	5
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. ?	1.3	1.1	1
	Nitration	Abs/cm	*ASTM D7644	>20	9.3	7.6	10.6
	Sulfation	Abs/.1mm	*ASTM D7624		22.8	19.5	24.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt		*Visual	NONE	NONE	NONE	NONE
		scalar scalar	*Visual	NORML	NORML	NORML	NORML
	Appearance Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NORME	NEG	NEG
		Jouran	violai	20.L		NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	<1	0
The DN second in the distance is the first of the distance is the second s	Boron	ppm	ASTM D5185m	250	<1	<1	1
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	10	0	<1	0
	Molybdenum	ppm	ASTM D5185m	100	63	49	61
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	380	342	371
	Calcium	ppm	ASTM D5185m	3000	1608	1461	1741
	Phosphorus	ppm	ASTM D5185m	1150	885	923	975
	Zinc	ppm	ASTM D5185m	1350	1214	1133	1204
	Sulfur	ppm	ASTM D5185m	4250	2728	2672	2616
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	13.4	20.5
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.9	5.4	4.5
	Visc @ 40°C	cSt	ASTM D445		97.0	91.5	102
	1/1 0 10000	- 01		444	10.0	107	10.0

Visc @ 100°C cSt ASTM D445 14.4

Viscosity Index (VI) Scale ASTM D2270 126

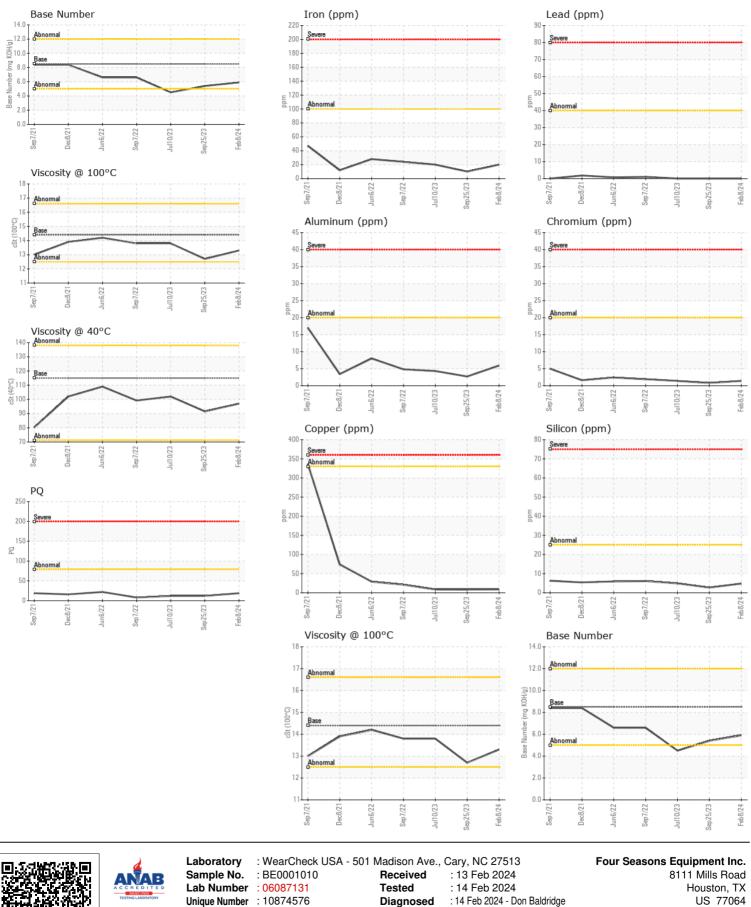
12.7 13.8

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135

13.3

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Test Package : MOBCE Contact: Vaughan Phillips Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. vphillips@fourseasons-equip.com \* - 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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