

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

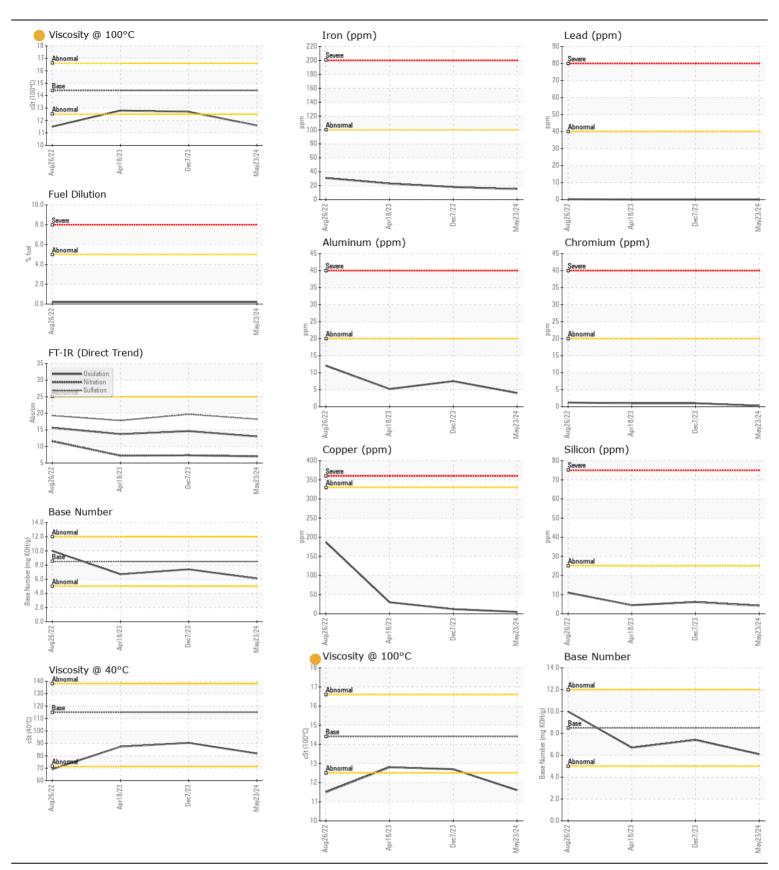


## Machine Id **BELL B30E B93A631EC03010095**

Diesel Engine

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

DIESEL ENGINE OIL SAE 15W	40 ( GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		BE0009659	BE0009655	BE0009654
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		23 May 2024	07 Dec 2023	18 Apr 2023
	Machine Age	hrs	Client Info		2025	1506	1014
	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				ATTENTION	NORMAL	NORMAL
WEAR	PQ		ASTM D8184	>79	20	16	14
	Iron	ppm	ASTM D5185m	>100	15	18	23
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	1	1
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	8	5
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	5	12	30
	Tin	ppm	ASTM D5185m	>15	<1	1	3
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	6	4
	Potassium	ppm	ASTM D5185m	>20	2	9	2
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		0.2	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.6	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.0	7.3	7.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	19.7	17.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	1	2	2
The effect of the factor of the control of the cont	Boron	ppm	ASTM D5185m		4	6	12
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	45	59	55
	Manganese	ppm	ASTM D5185m		<1	1	3
	Magnesium	ppm	ASTM D5185m		312	402	457
	Calcium	ppm	ASTM D5185m		1476	1659	1627
	Phosphorus	ppm	ASTM D5185m		882	920	917
	Zinc	ppm	ASTM D5185m		1078	1174	1135
	Sulfur	ppm Aba/1mm	ASTM D5185m		2958	3334	3378
	Oxidation	Abs/.1mm	*ASTM D7414		13.0	14.6	13.7
	Base Number (BN)				6.1	7.4	6.7
	Visc @ 40°C	cSt	ASTM D445		81.8	90.4	87.3
	Visc @ 100°C	cSt	ASTM D445		11.6	12.7	12.8
	Viscosity Index (VI)	Scale	ASTM D2270	126	133	137	144





Laboratory Sample No.

: BE0009659 Lab Number : 06196532

Unique Number : 11058655 Test Package : MOBCE ( Additional Tests: FuelDilution, PercentFuel )

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024 **Tested** 

: 05 Jun 2024 Diagnosed

: 05 Jun 2024 - Jonathan Hester

National Equipment Dealers LLC NE 215 Woodside Drive

Lexington, NC US 27292 Contact: Steven Gawthrop

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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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