

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

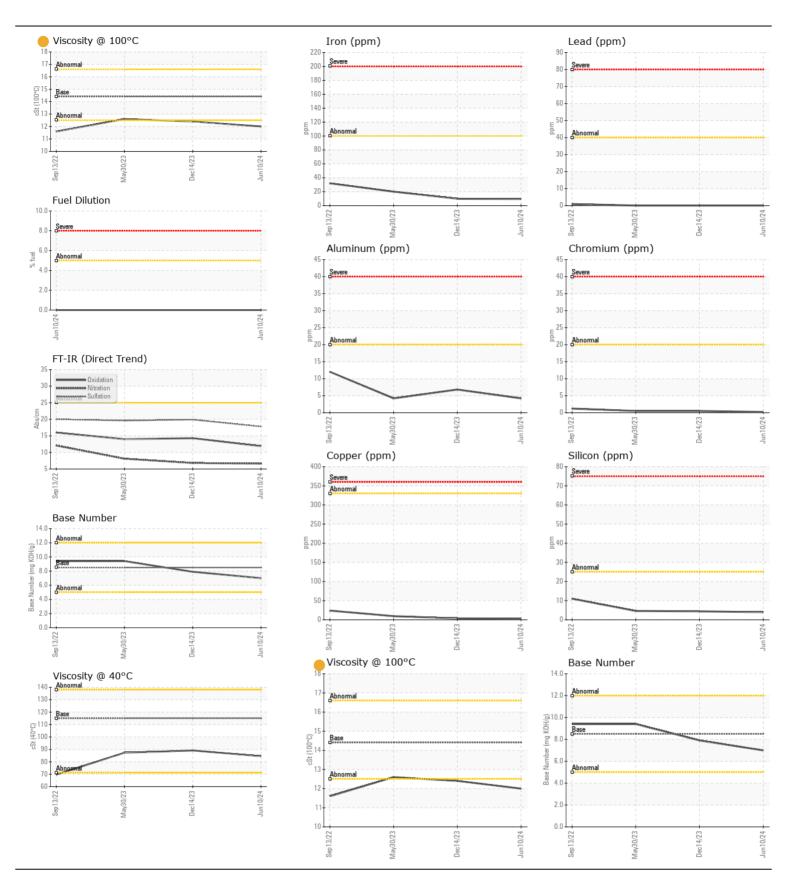


Machine Id **BELL B93A631EE03010094**

Diesel Engine

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

DIESEL ENGINE OIL SAE 15W4	10 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		BE0009126	BE0009122	BE0009121
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		10 Jun 2024	14 Dec 2023	30 May 2023
	Machine Age	hrs	Client Info		2028	1480	990
	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 All component wear rates are normal.	PQ		ASTM D8184	>79	11	16	14
	Iron	ppm	ASTM D5185m		10	10	20
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		4	7	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		3	4	9
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium White Metal	ppm	*Visual	NONE	0 NONE	0 NONE	0
	Yellow Metal	scalar	*Visual	NONE	NONE NONE	NONE NONE	NONE
		scalar	VISUAI	INOINE		NONE	INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	5
	Potassium	ppm	ASTM D5185m	>20	5	8	4
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>5	0.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	6.6	6.8	8.1
	Sulfation	Abs/.1mm	*ASTM D7415		17.8	19.9	19.6
	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 Emulsified Water	scalar scalar	*Visual	NORML >0.2	NORML NEG	NORML NEG	NORML NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	70	0
The oil viscosity is lower than normal. The BN result indicates that	Boron Barium	ppm	ASTM D5185m ASTM D5185m		19 0	79 <1	37
there is suitable alkalinity remaining in the oil. Confirm oil type.	Molybdenum	ppm	ASTM D5185m		46	70	0 64
	Manganese	ppm	ASTM D5185m	100	<1	<1	2
	Magnesium	ppm	ASTM D5185m	450	301	444	446
	Calcium	ppm	ASTM D5185m		1660	1483	1713
	Phosphorus	ppm	ASTM D5185m		891	870	919
	Zinc	ppm	ASTM D5185m		1074	1042	1099
	Sulfur	ppm	ASTM D5185m		3396	2736	3229
	Oxidation	Abs/.1mm	*ASTM D7414		11.9	14.3	14.0
	Base Number (BN)				7.0	7.9	9.4
					84.5	89.1	87.3
	Visc @ 40°C	cSt	ASTM D445	115	04.5	03.1	07.0
	Visc @ 40°C Visc @ 100°C	cSt	ASTM D445		12.0	12.4	12.6





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06211477

: BE0009126

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

Unique Number : 11084341

Received **Tested**

: 17 Jun 2024 : 20 Jun 2024

Diagnosed : 20 Jun 2024 - Jonathan Hester Test Package : MOBCE (Additional Tests: FuelDilution, PercentFuel)

National Equipment Dealers LLC NE 215 Woodside Drive

Lexington, NC US 27292

Contact: Steven Gawthrop sgawthrop@nedealers.com T:

* - 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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