

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

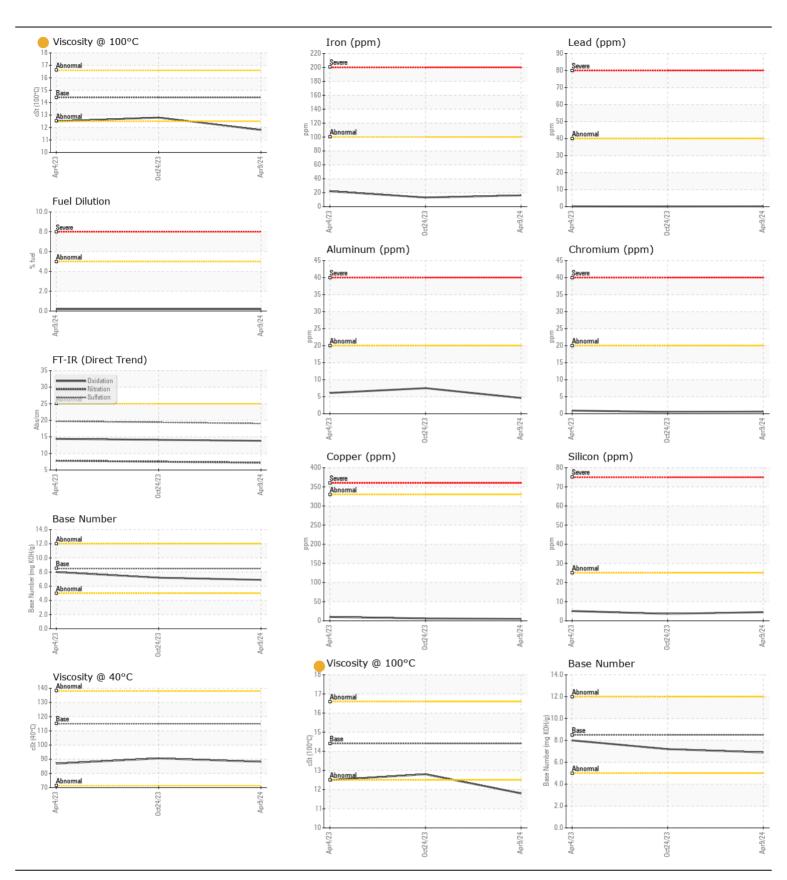


Machine Id **BELL B30E B93A631ET03010079**

Diesel Engine

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

DIESEL ENGINE OIL SAE 15W4	(GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		BE0009028	BE0009024	BE0009023
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		09 Apr 2024	24 Oct 2023	04 Apr 2023
	Machine Age	hrs	Client Info		1992	1489	1003
	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	17	7	14
	Iron	ppm	ASTM D5185m	>100	16	13	22
	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		5	8	6
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m		5	6	10
	Tin	ppm	ASTM D5185m	>15	<1	<1	1
	Vanadium White Metal	ppm	*Visual	NONE	0 NONE	0 NONE	0 NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		scalar	VISUAI	INOINE		INOINE	INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	5
	Potassium	ppm	ASTM D5185m	>20	5	9	4
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>5	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	0.7	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.5	7.8
	Sulfation	Abs/.1mm	*ASTM D7415		19.0	19.4	19.7
	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 *Visual	NORML >0.2	NORML NEG	NORML NEG	NORML NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	3	2
The oil viscosity is lower than normal. The BN result indicates that	Boron	ppm	ASTM D5185m		6	9	36
there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m		<1 56	0 56	2 61
	Manganese	ppm	ASTM D5185m	100	>0 <1	1	2
	Magnesium	ppm	ASTM D5185m	450	370	414	446
	Calcium	ppm	ASTM D5185m		1624	1598	1611
	Phosphorus	ppm	ASTM D5185m		1047	933	906
	Zinc	ppm	ASTM D5185m		1174	1186	1097
	Sulfur	ppm	ASTM D5185m		3220	2930	3078
	Oxidation	Abs/.1mm	*ASTM D7414		13.8	14.1	14.4
	Base Number (BN)				6.9	7.2	8.0
			ASTM D445		88.2	90.6	86.9
	Visc @ 40°C	cSt	A3 1 W D443	110	00.2	30.0	00.5
	Visc @ 40°C Visc @ 100°C	cSt	ASTM D445		11.8	12.8	12.5





Unique Number : 10978610

Laboratory Sample No. Lab Number : 06148532

: BE0009028

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Diagnosed

: 15 Apr 2024 : 19 Apr 2024

: 19 Apr 2024 - Jonathan Hester

National Equipment Dealers LLC NE 215 Woodside Drive

Lexington, NC US 27292 Contact: Steven Gawthrop

Test Package : MOBCE (Additional Tests: FuelDilution, PercentFuel) sgawthrop@nedealers.com 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)

T: F: