



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
BELL B25E B93A625EC03009895
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (7 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		BE0002196	BE0002191	BE0002190
Sample Date		Client Info		01 Jul 2024	31 Aug 2022	16 Dec 2021
Machine Age	hrs	Client Info		2012	921	461
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

All component wear rates are normal.

PQ		ASTM D8184	>79	15	4	13
Iron	ppm	ASTM D5185m	>100	20	30	33
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	6	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	4	7	10
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	3	10	24
Tin	ppm	ASTM D5185m	>15	0	<1	2
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

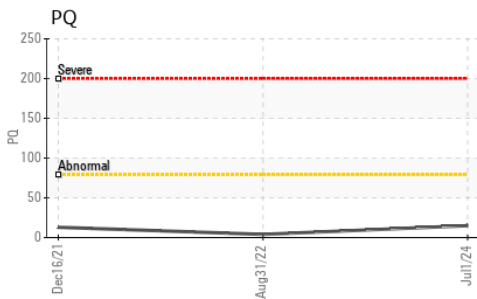
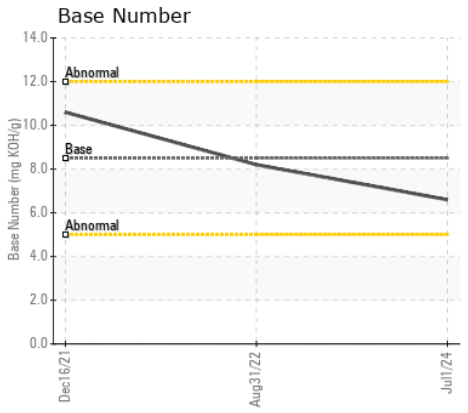
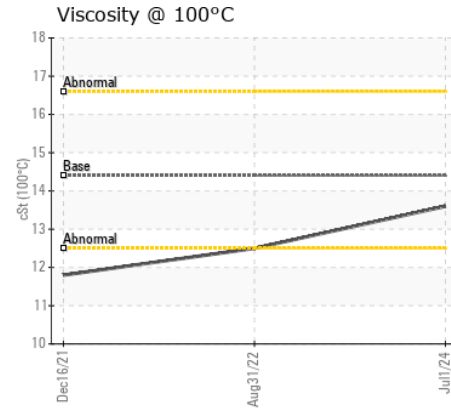
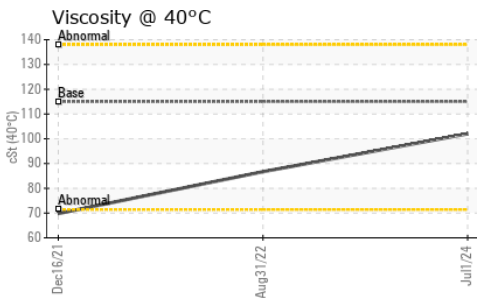
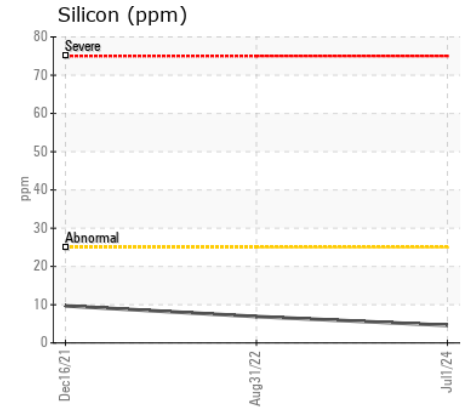
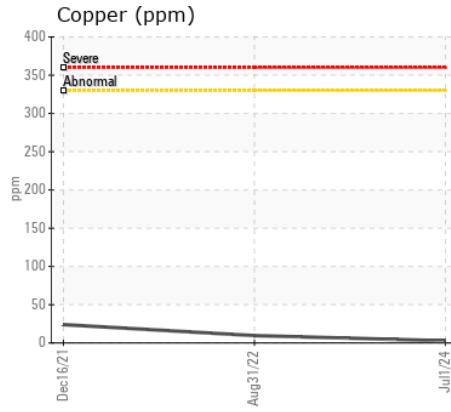
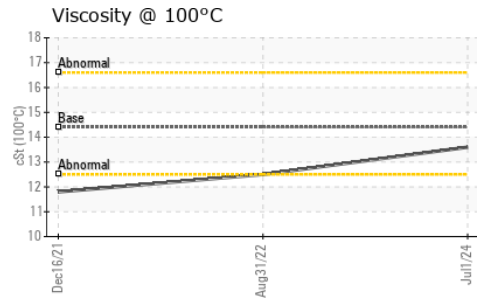
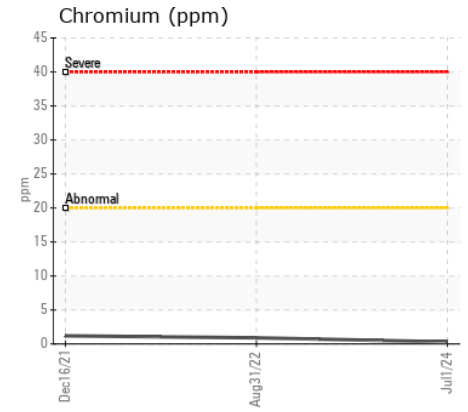
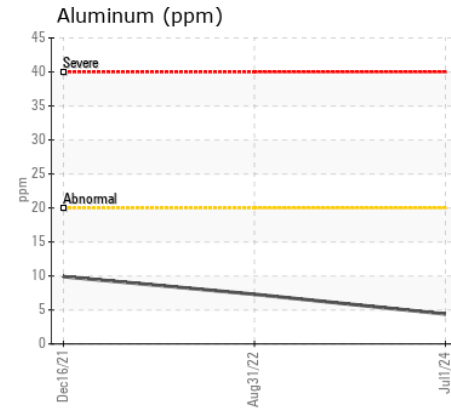
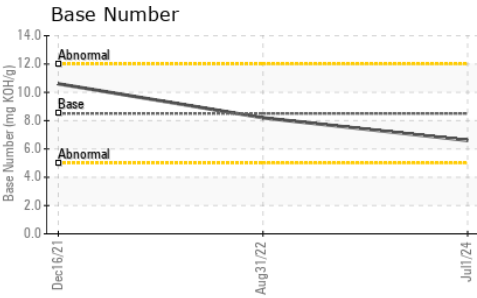
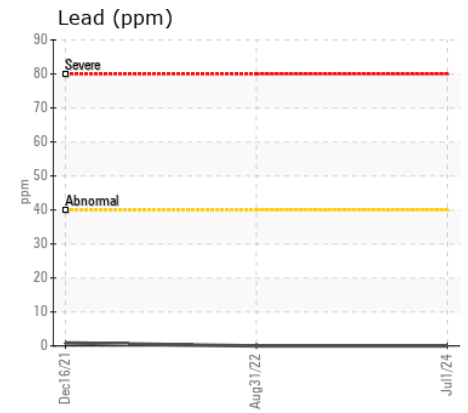
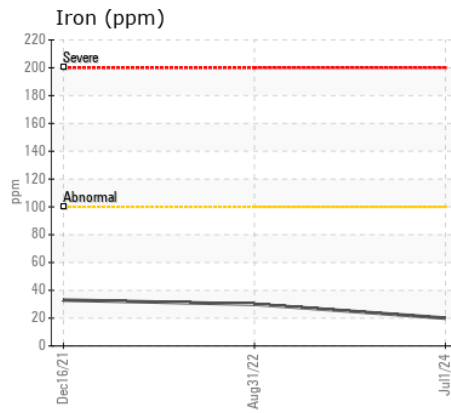
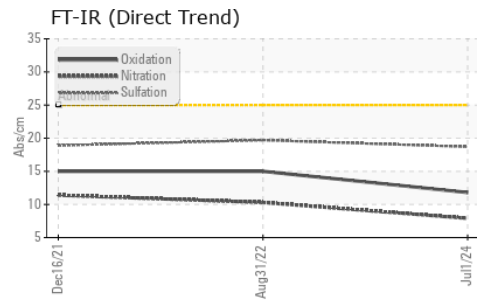
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	7	10
Potassium	ppm	ASTM D5185m	>20	3	3	<1
Fuel		WC Method	>5	<1.0	<1.0	0.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.8	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.9	10.3	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.7	18.9
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

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	2	3	3
Boron	ppm	ASTM D5185m	250	30	50	117
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	22	75	41
Manganese	ppm	ASTM D5185m		<1	1	3
Magnesium	ppm	ASTM D5185m	450	149	256	868
Calcium	ppm	ASTM D5185m	3000	2356	2018	1507
Phosphorus	ppm	ASTM D5185m	1150	955	916	772
Zinc	ppm	ASTM D5185m	1350	1144	1091	845
Sulfur	ppm	ASTM D5185m	4250	4003	3644	2213
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.8	15.0	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.6	8.2	10.6
Visc @ 40°C	cSt	ASTM D445	115	102	86.7	69.8
Visc @ 100°C	cSt	ASTM D445	14.4	13.6	12.5	11.8
Viscosity Index (VI)	Scale	ASTM D2270	126	133	140	165



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : BE0002196
Lab Number : 06231143
Unique Number : 11114636
Test Package : MOBCE

Received : 08 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 10 Jul 2024 - Jonathan Hester

Newman Tractor
 2841 Verona Road
 Verona, KY
 US 41092

Contact: Justin Newman
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F:

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)