

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION

Current

History1

BE0010013 BE0010012 BE0010002

History2

Limit/Abn

RECOMMENDATION

Machine Id BELL B50E B93A650EV03007848

Test

Sample Number

UOM

Method

Client Info

Diesel Engine

SYNERGY 15W40 (--- GAL)

Oil and filter change at the time of sampling has been noted. Resample
at the next service interval to monitor.

WW	1

All component wear rates are normal.

CONTAMINATION

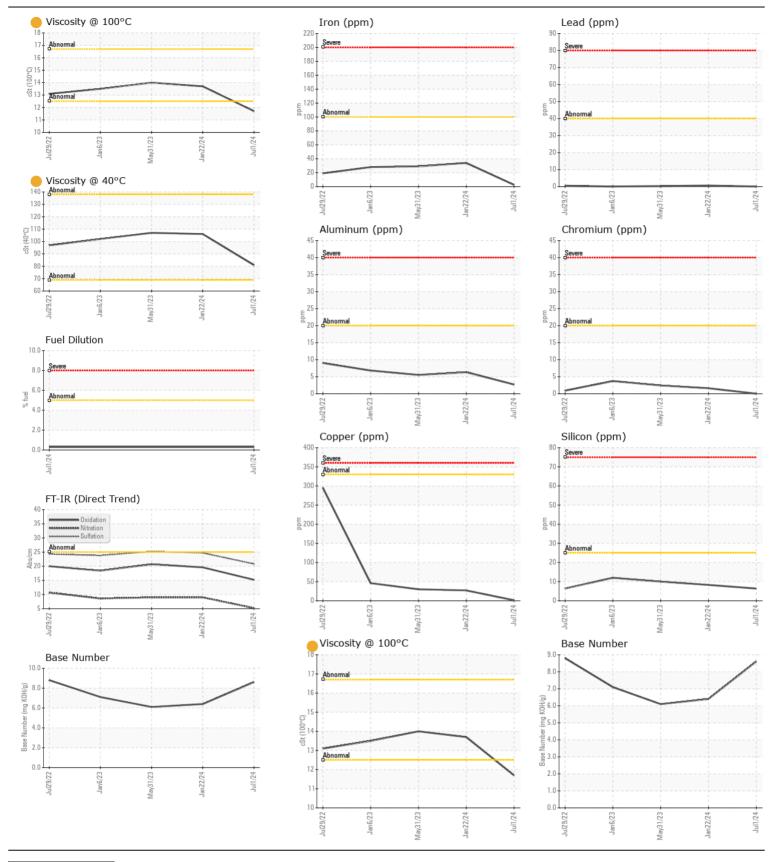
Fuel content negligible. There is no indication of any contamination in the oil.

Sample Number		Chefit IIIIO		DEUDIUUIS	DEUUIUUIZ	DEUUIUUUZ
Sample Date		Client Info		01 Jul 2024	22 Jan 2024	31 May 2023
Machine Age	hrs	Client Info		2922	2456	1971
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
PQ		ASTM D8184	>79	13	18	9
Iron	ppm	ASTM D5185m	>100	2	34	29
Chromium	ppm	ASTM D5185m	>20	0	2	2
Nickel	ppm	ASTM D5185m	>4	0	<1	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	6	6
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	1	27	30
Tin	ppm	ASTM D5185m	>15	0	1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	6	8	10
Potassium	ppm	ASTM D5185m	>20	2	4	4
Fuel	%	ASTM D3524	>5	0.3	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.2	9.0	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	24.7	25.2
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
Codium				•	2	
Sodium	ppm	ASTM D5185m ASTM D5185m		0	2	1 230
Boron	ppm			464 0		230
Barium	ppm ppm	ASTM D5185m ASTM D5185m		83	0 91	2 101
Molybdenum Manganese		ASTM D5185m		0	1	<1
Magnesium	ppm	ASTM D5185m			471	440
Calcium	ppm	ASTM D5185m		466		1523
	ppm ppm	ASTM D5185m		1438 1156	1476 1065	
Phosphorus Zinc		ASTM D5185m		1399		1063 1382
Sulfur	ppm	ASTM D5185m			1355	
	ppm	*ASTM D5185m	> 2F	4242	2817	3029
Oxidation	Abs/.1mm		>25	15.2	19.6	20.7
Base Number (BN)		ASTM D2896		8.6	6.4	6.1
Visc @ 40°C	cSt	ASTM D445		80.9	106	107
Visc @ 100°C	cSt Seele	ASTM D445		11.7	13.7	14.0
Viscosity Index (VI)	Scale	ASTM D2270		137	128	131

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

.....



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **Oak Hills** Sample No. : BE0010013 Received 20245 Ewing Road : 10 Jul 2024 Lab Number : 06232881 Tested Ewing, IL : 16 Jul 2024 Unique Number : 11116374 US 62836 Diagnosed : 16 Jul 2024 - Jonathan Hester Test Package : MOBCE (Additional Tests: FuelDilution, PercentFuel) Contact: JOSH Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. joshohc@gmail.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (618)944-4490 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)