

Machine Id BELLEVUE Component Port Genset Fluid DIESEL ENGINE OIL SAE 15W40 (15 GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

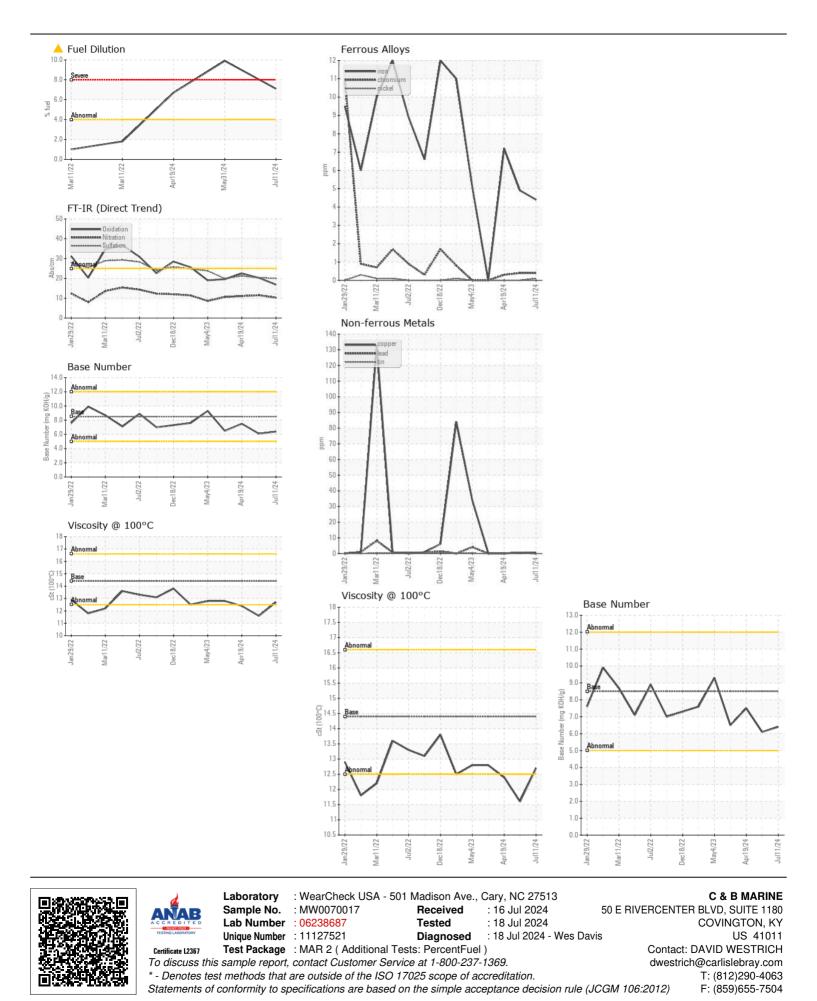
CONTAMINATION

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0070017	MW0069942	MW0056962
Sample Date		Client Info		11 Jul 2024	31 May 2024	19 Apr 2024
Machine Age	hrs	Client Info		16222	15743	0
Oil Age	hrs	Client Info		500	500	500
Filter Age	hrs	Client Info		500	500	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185m	>50	4	5	7
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>5	<1	0	0
Aluminum	ppm	ASTM D5185m	>12	2	3	2
Lead	ppm	ASTM D5185m	>17	0	<1	0
Copper	ppm	ASTM D5185m	>70	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	4	4	4
Potassium	ppm	ASTM D5185m	>20	2	2	21
Fuel	%	ASTM D3524	>4.0	A 7.1	▲ 9.9	6 .7
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.3	11.5	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	20.3	21.2
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	>0.1	NEG	NEG	NEG
Sodium	000	ASTM D5185m	>158	4	0	16
Boron	ppm	ASTM D5185m		1 10	0 23	57
	ppm					
Barium	ppm	ASTM D5185m ASTM D5185m	10	0 10	0 24	0 48
Molybdenum	ppm		100		24 0	48
Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m	450	0 125	280	564
Calcium	ppm	ASTM D5185m	450 3000	125	1751	1657
	ppm				979	944
Phosphorus	ppm	ASTM D5185m	1150	843		
Zinc	ppm	ASTM D5185m	1350	994	1033	1125
Sulfur	ppm	ASTM D5185m	4250	3033	3490	3675
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	20.3	22.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.4	6.1	7.5
Visc @ 100°C	cSt	ASTM D445	14.4	12.7	1 1.6	12.4



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