



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

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

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0056962	MW0057119	MW0045758
Sample Date		Client Info		19 Apr 2024	07 Mar 2024	04 May 2023
Machine Age	hrs	Client Info		0	14739	11265
Oil Age	hrs	Client Info		500	0	500
Filter Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	7	0	5
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>12	2	2	5
Lead	ppm	ASTM D5185m	>17	0	0	4
Copper	ppm	ASTM D5185m	>70	<1	<1	▲ 34
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

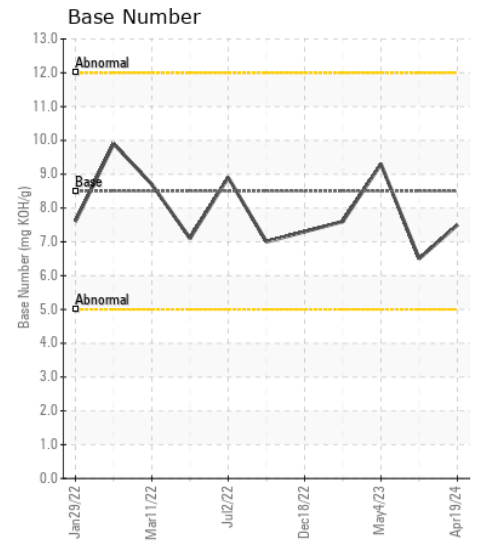
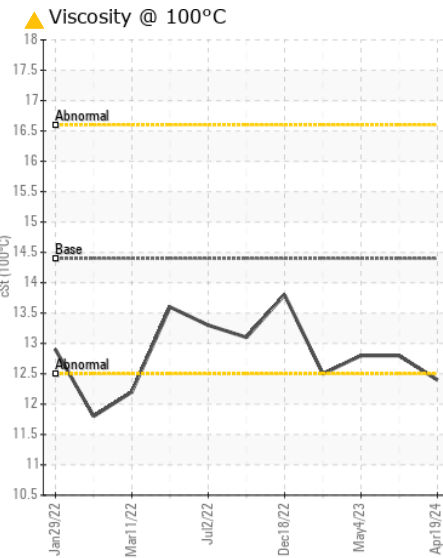
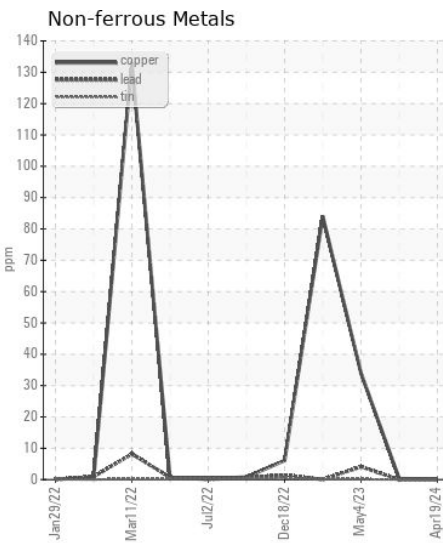
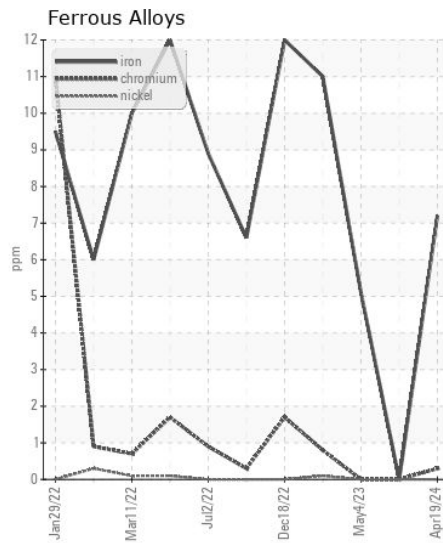
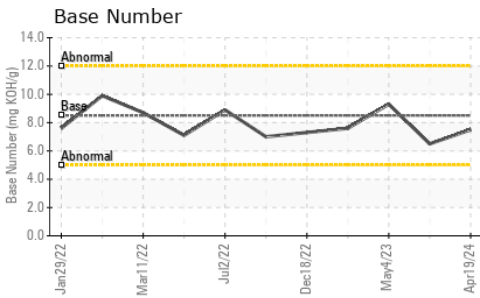
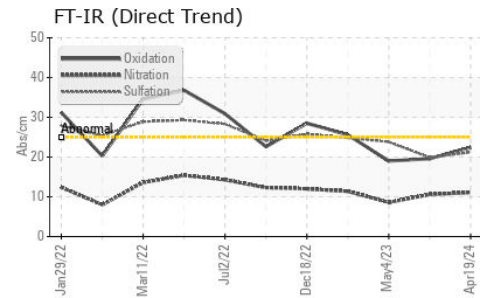
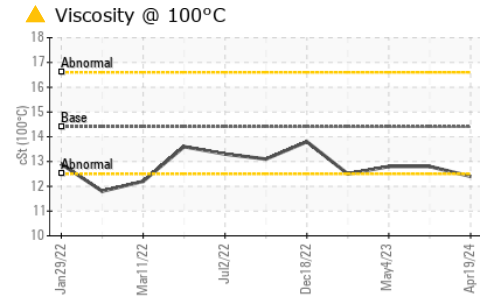
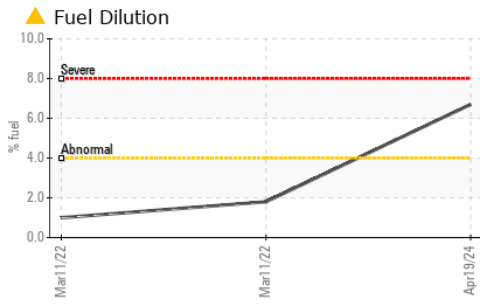
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	4	3	4
Potassium	ppm	ASTM D5185m	>20	21	0	<1
Fuel	%	ASTM D3524	>4.0	▲ 6.7	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	11.1	10.6	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	19.9	23.8
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>158	16	<1	<1
Boron	ppm	ASTM D5185m	250	57	0	309
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	48	22	126
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	450	564	309	676
Calcium	ppm	ASTM D5185m	3000	1657	1839	1593
Phosphorus	ppm	ASTM D5185m	1150	944	901	702
Zinc	ppm	ASTM D5185m	1350	1125	1058	869
Sulfur	ppm	ASTM D5185m	4250	3675	3543	2735
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.4	19.6	19.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.5	6.5	9.3
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 12.4	12.8	12.8



Certificate L2367

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

Sample No. : MW0056962

Lab Number : 06159689

Unique Number : 10995112

Test Package : MAR 2 (Additional Tests: FuelDilution, PercentFuel)

Received : 24 Apr 2024

Tested : 29 Apr 2024

Diagnosed : 29 Apr 2024 - Wes Davis

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)

C & B MARINE

50 E RIVERCENTER BLVD, SUITE 1180

COVINGTON, KY

US 41011

Contact: DAVID WESTRICH

dwestrich@carlislebray.com

T: (812)290-4063

F: (859)655-7504