



WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	SEVERE

Machine Id
SONNY IVEY (S/N PE6068G838012)

Component
Port Genset

Fluid
CHEVRON DELO 710 LS (7 GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you change the oil at the next available stoppage or outage. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0031268	MW0031213	MWM674622
Sample Date		Client Info		03 Apr 2024	03 Feb 2024	04 Dec 2023
Machine Age	hrs	Client Info		40200	33298	33162
Oil Age	hrs	Client Info		80	164	164
Filter Age	hrs	Client Info		80	164	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	4	4	1
Chromium	ppm	ASTM D5185m	>4	<1	<1	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	1	1	1
Lead	ppm	ASTM D5185m	>17	<1	2	0
Copper	ppm	ASTM D5185m	>70	1	<1	0
Tin	ppm	ASTM D5185m	>15	1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

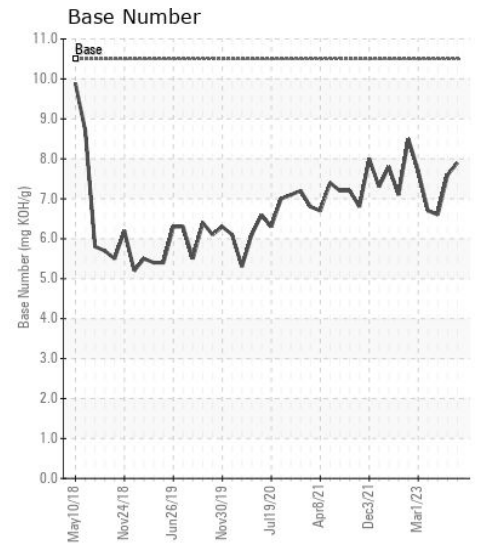
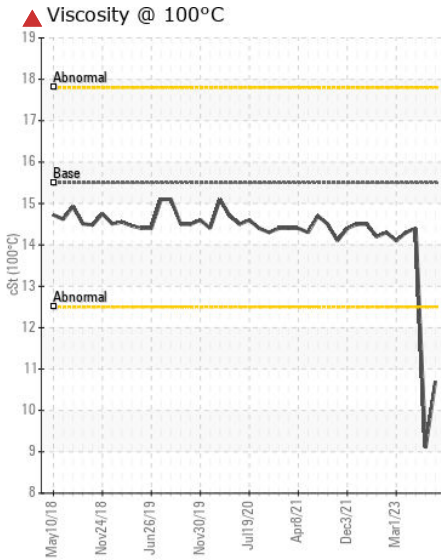
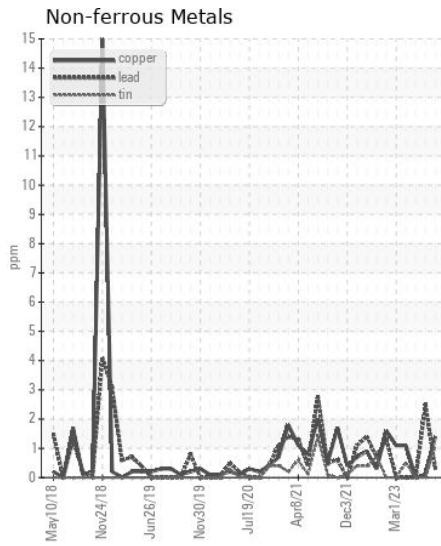
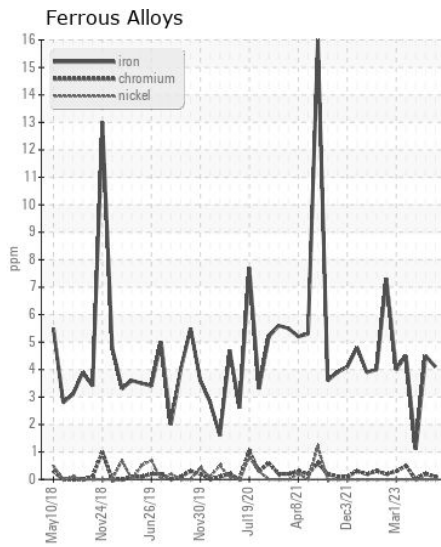
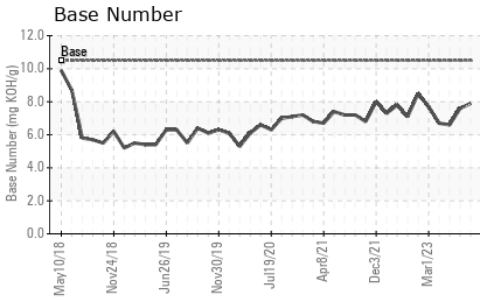
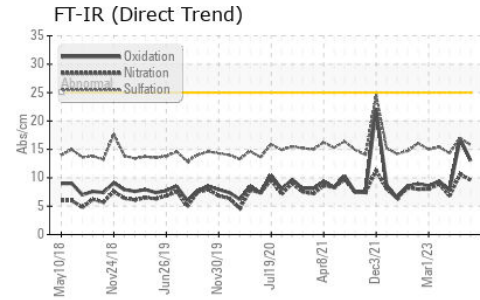
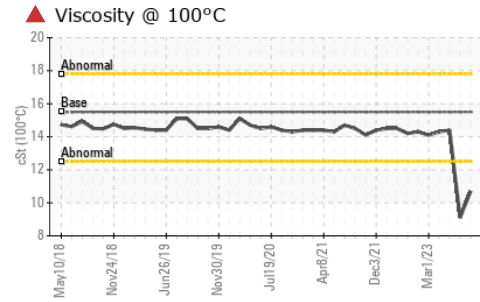
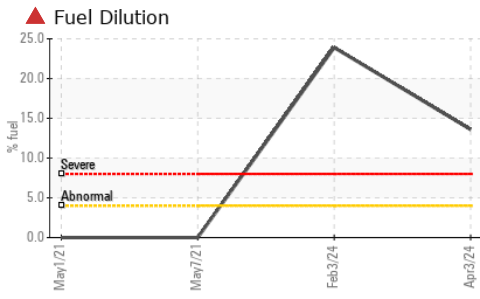
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	2	2	2
Potassium	ppm	ASTM D5185m	>20	0	2	0
Fuel	%	ASTM D3524	>4.0	▲ 13.6	▲ 23.9	<1.0
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	9.6	10.6	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.8	17.0	14.3
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		0	0	0
Boron	ppm	ASTM D5185m		39	28	38
Barium	ppm	ASTM D5185m		0	8	0
Molybdenum	ppm	ASTM D5185m		36	28	37
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		10	7	13
Calcium	ppm	ASTM D5185m		2910	2108	3141
Phosphorus	ppm	ASTM D5185m		<1	24	4
Zinc	ppm	ASTM D5185m		0	9	0
Sulfur	ppm	ASTM D5185m		2226	1638	2262
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	16.9	7.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	7.9	7.6	6.6
Visc @ 100°C	cSt	ASTM D445	15.5	▲ 10.7	▲ 9.1	14.4



Certificate L2367

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

Sample No. : MW0031268

Lab Number : 06150097

Unique Number : 10980175

Test Package : MAR 2 (Additional Tests: PercentFuel)

Received : 16 Apr 2024

Tested : 19 Apr 2024

Diagnosed : 19 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)

AMERICAN COMMERCIAL LINES

PO BOX 610, 1701 E. MARKET STREET

JEFFERSONVILLE, IN

US 47130

Contact: RONALD SCHNEIDER

ronald.schneider@bargeacbl.com

T:

F: (812)288-1644