



Area

SUE KOSSOW

Machine Id

[SUE KOSSOW] 007 641018-7

Component

Port Genset

Fluid

CHEVRON DELO 400 LE 15W40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0068031	MW0068050	MW0042972
Sample Date		Client Info		21 Jun 2024	27 Feb 2024	06 Jan 2024
Machine Age	hrs	Client Info		30464	36666	30310
Oil Age	hrs	Client Info		386	48	210
Filter Age	hrs	Client Info		386	48	210
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				SEVERE	MARGINAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	2	2	4
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>12	3	4	2
Lead	ppm	ASTM D5185m	>17	0	0	0
Copper	ppm	ASTM D5185m	>70	0	<1	3
Tin	ppm	ASTM D5185m	>15	0	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

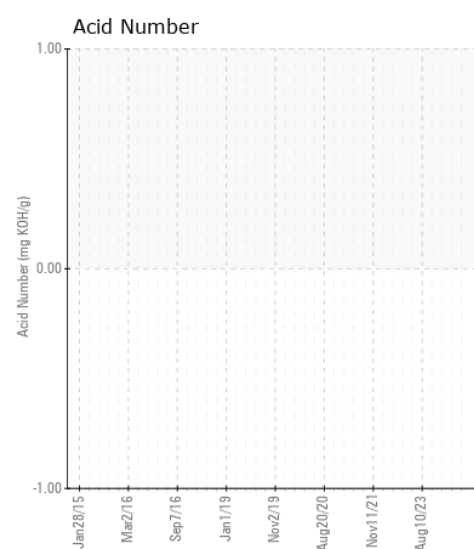
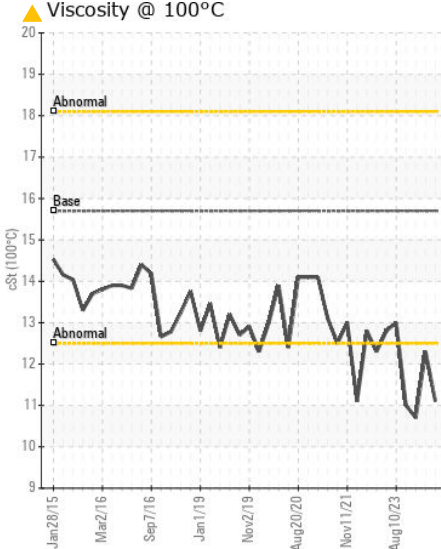
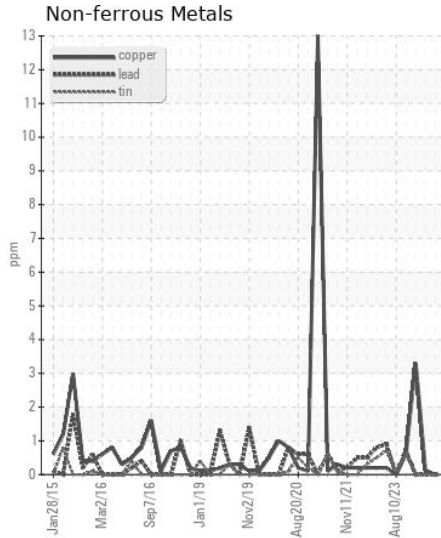
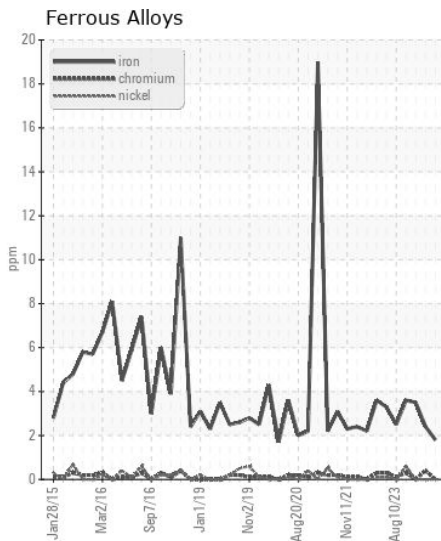
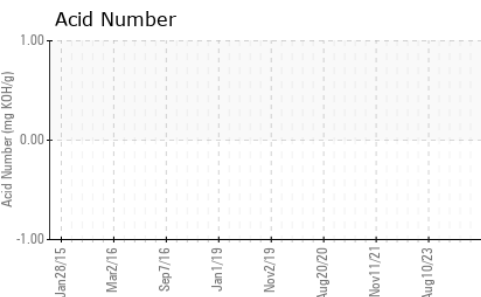
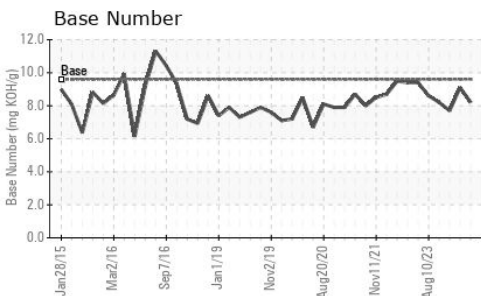
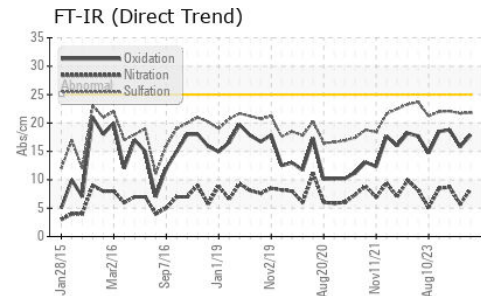
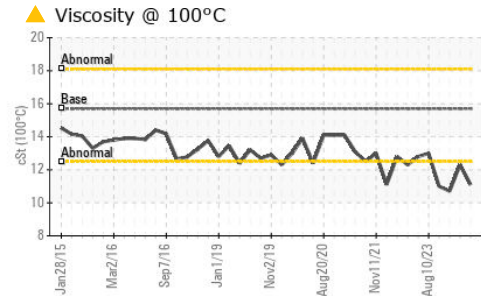
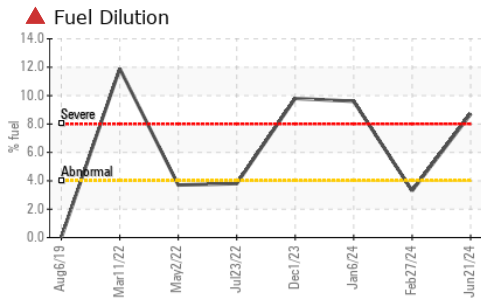
There is a high amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>25	9	8	▲ 37
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Fuel	%	ASTM D3524	>4.0	▲ 8.7	▲ 3.3	▲ 9.6
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	8.3	5.7	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	21.7	22.1
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.

Sodium	ppm	ASTM D5185m		<1	2	<1
Boron	ppm	ASTM D5185m		274	313	275
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		110	112	107
Manganese	ppm	ASTM D5185m		1	0	<1
Magnesium	ppm	ASTM D5185m		597	584	554
Calcium	ppm	ASTM D5185m		1478	1409	1506
Phosphorus	ppm	ASTM D5185m	1200	633	620	623
Zinc	ppm	ASTM D5185m	1300	760	756	740
Sulfur	ppm	ASTM D5185m	3200	2573	2333	2242
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	15.8	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	8.2	9.1	7.7
Visc @ 100°C	cSt	ASTM D445	15.7	▲ 11.1	12.3	▲ 10.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0068031 **Received** : 01 Jul 2024
Lab Number : 06225620 **Tested** : 08 Jul 2024
Unique Number : 11103817 **Diagnosed** : 08 Jul 2024 - Jonathan Hester
Test Package : MAR 2 (Additional Tests: FuelDilution, PercentFuel, TAN Man)

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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)