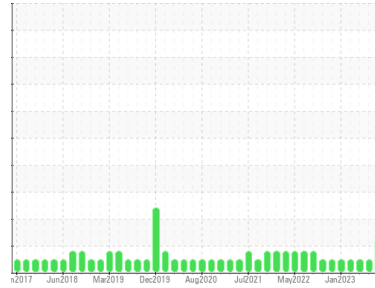




PROBLEM SUMMARY

Sample Rating Trend



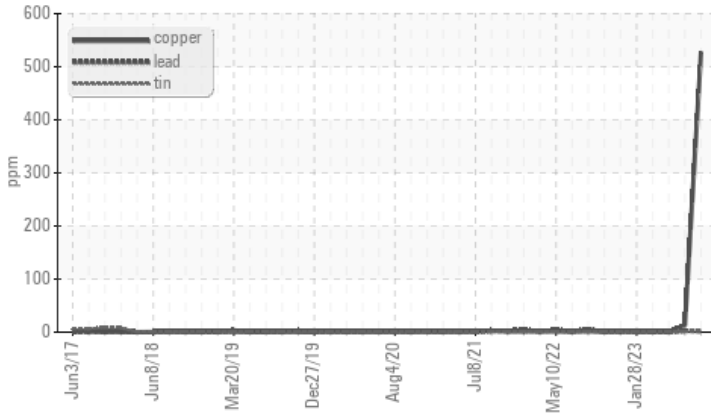
WEAR



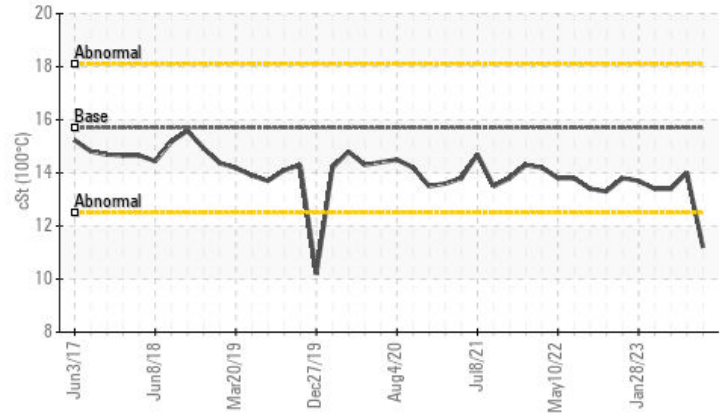
Area
MARTHA LYNN
Machine Id
[MARTHA LYNN] 007 504678-7
Component
Port Genset
Fluid
CHEVRON DELO 400 LE 15W40 (6 GAL)

COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ Viscosity @ 100°C



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	NORMAL
Copper	ppm	ASTM D5185m	>70	▲ 527	13	<1
Visc @ 100°C	cSt	ASTM D445	15.7	▲ 11.2	14.0	13.4

Customer Id: INGPAD
Sample No.: MW0053545
Lab Number: 05964096
Test Package: MAR 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

01 Aug 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

[view report](#)



18 May 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

[view report](#)



29 Apr 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

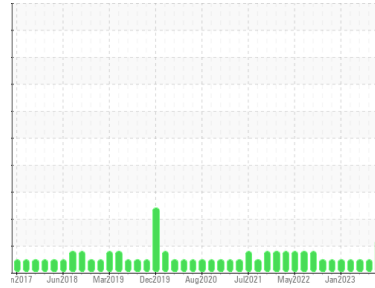
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
MARTHA LYNN
 Machine Id
[MARTHA LYNN] 007 504678-7
 Component
Port Genset
 Fluid
CHEVRON DELO 400 LE 15W40 (6 GAL)

DIAGNOSIS

▲ Recommendation

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

▲ Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

Contamination

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

▲ Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	MW0053545	MW0053541	MW0048695
Sample Date	Client Info	26 Aug 2023	01 Aug 2023	18 May 2023
Machine Age	hrs	485	1	6749
Oil Age	hrs	485	1	414
Oil Changed	Client Info	Changed	Changed	N/A
Sample Status		ABNORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	17	11	29
Chromium	ppm	ASTM D5185m >4	<1	0	<1
Nickel	ppm	ASTM D5185m >2	<1	0	0
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m >5	2	0	0
Aluminum	ppm	ASTM D5185m >12	2	<1	<1
Lead	ppm	ASTM D5185m >17	1	3	0
Copper	ppm	ASTM D5185m >70	▲ 527	13	<1
Tin	ppm	ASTM D5185m >15	3	1	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	57	112	274
Barium	ppm	ASTM D5185m	<1	0	0
Molybdenum	ppm	ASTM D5185m	87	3	119
Manganese	ppm	ASTM D5185m	5	2	<1
Magnesium	ppm	ASTM D5185m	61	747	617
Calcium	ppm	ASTM D5185m	2317	1391	1877
Phosphorus	ppm	ASTM D5185m 1200	1080	718	654
Zinc	ppm	ASTM D5185m 1300	1294	882	797
Sulfur	ppm	ASTM D5185m 3200	4192	3814	2897

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	42	54	6
Sodium	ppm	ASTM D5185m	6	5	1
Potassium	ppm	ASTM D5185m >20	6	8	0
Fuel	%	ASTM D3524 >4.0	0.5	<1.0	<1.0

INFRA-RED

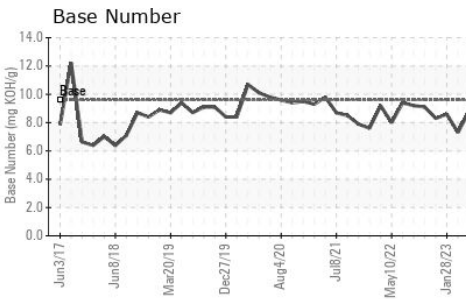
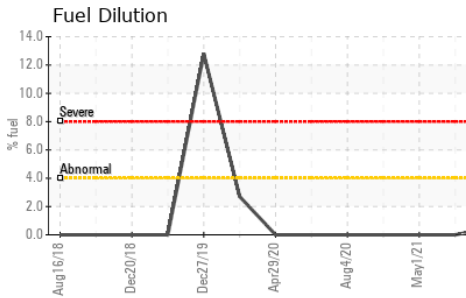
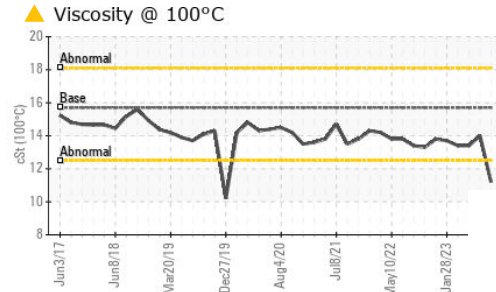
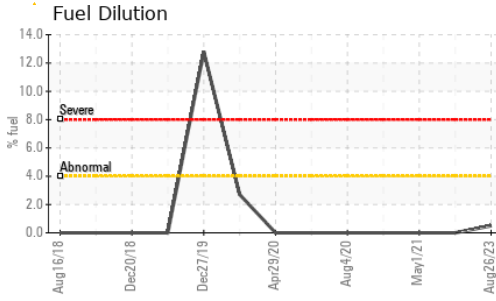
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	0.6	0.1	0.5
Nitration	Abs/cm	*ASTM D7624 >20	8.5	5.7	9.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.6	17.9	22.1

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.2	11.5	16.3
Base Number (BN)	mg KOH/g	ASTM D2896 9.6	8.9	8.6	8.8



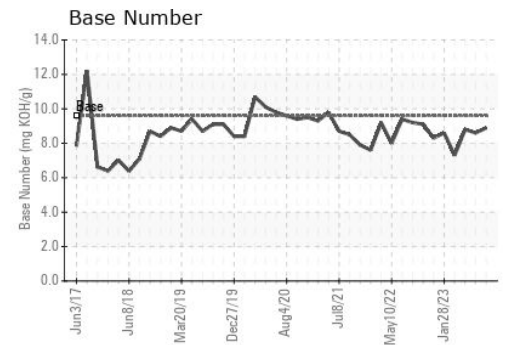
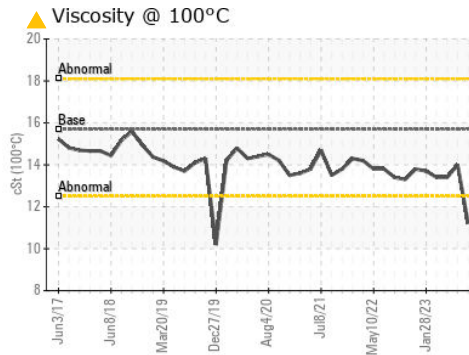
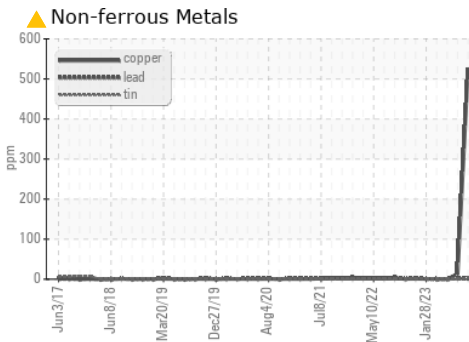
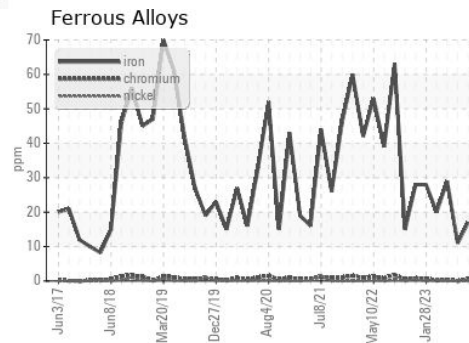
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.7 ▲ 11.2	14.0	13.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0053545 **Received** : 28 Sep 2023
Lab Number : 05964096 **Diagnosed** : 02 Oct 2023
Unique Number : 10670647 **Diagnostician** : Jonathan Hester
Test Package : MAR 2 (Additional Tests: FuelDilution, PercentFuel)

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)

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