



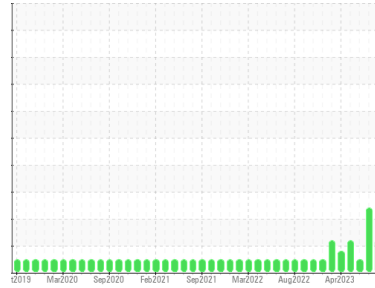
# PROBLEM SUMMARY

Sample Rating Trend

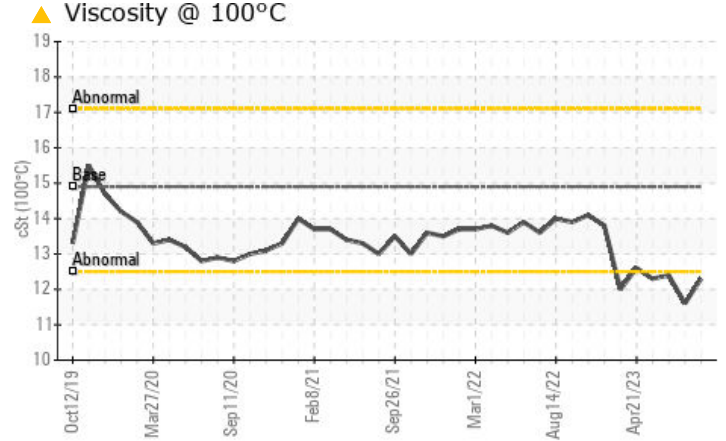
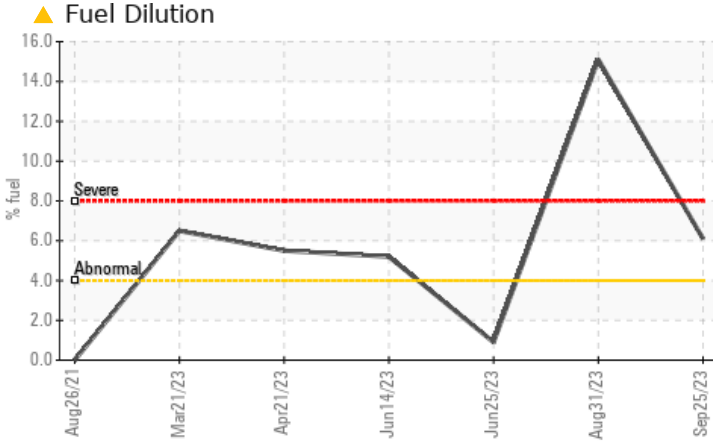
FUEL



Area  
**SUSAN JOHNSON**  
 Machine Id  
**[SUSAN JOHNSON] 007 569359-7**  
 Component  
**Port Genset**  
 Fluid  
**CHEVRON DELO 400 XLE 15W40 (7 GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

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

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	SEVERE	NORMAL
Fuel	%	ASTM D3524	>4.0	▲ 6.1	● 15.1	0.9
Visc @ 100°C	cSt	ASTM D445	14.9	▲ 12.3	▲ 11.6	12.4

Customer Id: INGPAD  
 Sample No.: MW0058742  
 Lab Number: 05965189  
 Test Package: MAR 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Wes Davis +1 905-569-8600 x223  
[wesd@wearcheck.ca](mailto:wesd@wearcheck.ca)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you change the oil at the next available stoppage or outage.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

### 31 Aug 2023 Diag: Wes Davis

#### FUEL



We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. 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.

[view report](#)



### 25 Jun 2023 Diag: Jonathan Hester

#### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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](#)



### 14 Jun 2023 Diag: Jonathan Hester

#### FUEL



We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

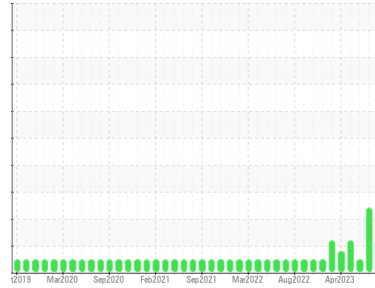
[view report](#)





# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Area  
**SUSAN JOHNSON**  
 Machine Id  
**[SUSAN JOHNSON] 007 569359-7**  
 Component  
**Port Genset**  
 Fluid  
**CHEVRON DELO 400 XLE 15W40 (7 GAL)**

## DIAGNOSIS

### ▲ Recommendation

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

### 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. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>MW0058742</b>	MW0060165	MW0053718
Sample Date	Client Info		<b>25 Sep 2023</b>	31 Aug 2023	25 Jun 2023
Machine Age	hrs	Client Info	<b>218</b>	10866	10161
Oil Age	hrs	Client Info	<b>218</b>	400	411
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	SEVERE	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>4</b>	13	11
Chromium	ppm	ASTM D5185m >4	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m >2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>14</b>	16	14
Silver	ppm	ASTM D5185m >5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >12	<b>&lt;1</b>	1	0
Lead	ppm	ASTM D5185m >17	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >70	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m >15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>89</b>	88	65
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>30</b>	34	32
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>701</b>	791	638
Calcium	ppm	ASTM D5185m	<b>1482</b>	1794	1480
Phosphorus	ppm	ASTM D5185m 760	<b>700</b>	759	665
Zinc	ppm	ASTM D5185m 830	<b>801</b>	880	818
Sulfur	ppm	ASTM D5185m 2770	<b>2923</b>	3873	3301

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	5	4
Sodium	ppm	ASTM D5185m	<b>2</b>	2	2
Potassium	ppm	ASTM D5185m >20	<b>2</b>	1	3
Fuel	%	ASTM D3524 >4.0	<b>▲ 6.1</b>	◆ 15.1	0.9

## INFRA-RED

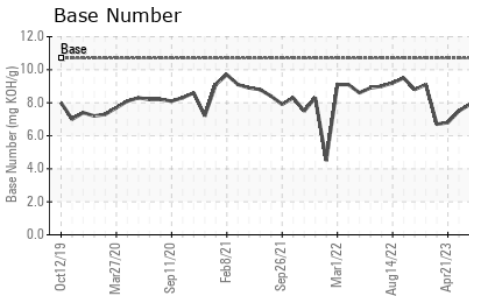
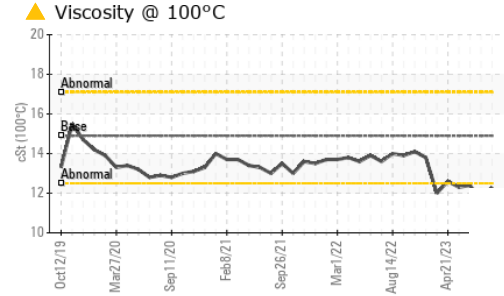
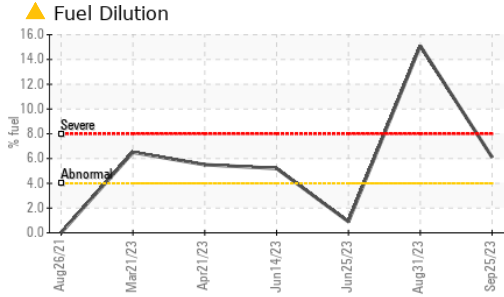
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.2</b>	0.2	0.3
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.7</b>	9.2	10.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>17.9</b>	18.2	19.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.5</b>	14.2	15.5
Base Number (BN)	mg KOH/g	ASTM D2896 10.7	<b>7.4</b>	7.5	7.9



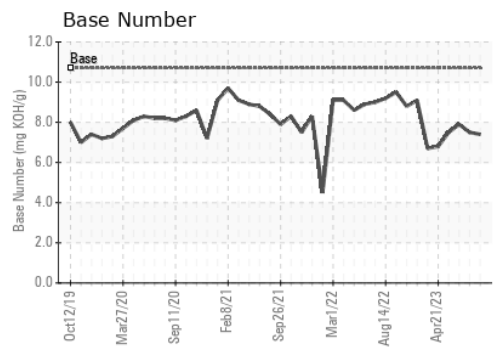
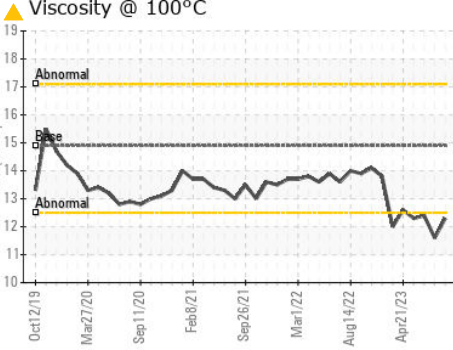
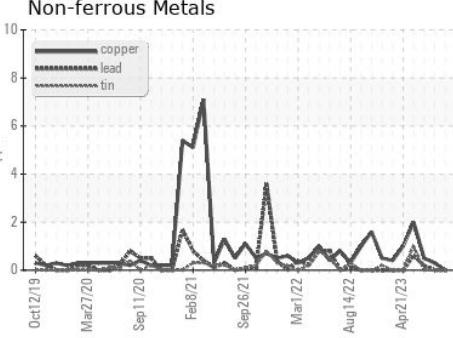
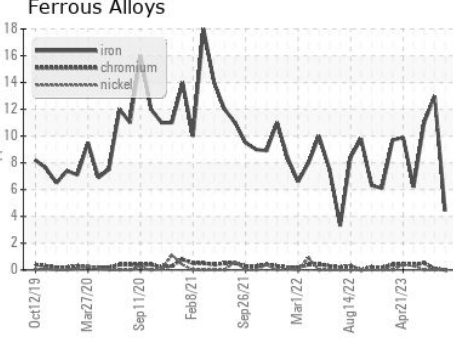
# OIL ANALYSIS REPORT



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	▲ 12.3	▲ 11.6	12.4

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0058742 **Received** : 29 Sep 2023  
**Lab Number** : 05965189 **Diagnosed** : 03 Oct 2023  
**Unique Number** : 10671740 **Diagnostician** : Wes Davis  
**Test Package** : MAR 2 ( Additional Tests: PercentFuel )

**INGRAM BARGE**  
 900 S 3RD ST  
 PADUCAH, KY  
 US 42003  
 Contact: GLENN ELLIS  
 glen.ellis@ingrambarga.com  
 T: (270)415-4467  
 F: (615)695-3697

Certificate L2367  
 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)