

## SAM M FLEMING [SAM M FLEMING] 007 590071-7

Port Genset

## CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend that you change the oil at the next available stoppage or outage. We recommend an early resample to monitor this condition.	Sample Number		Client Info		MWM690524	MWM683759	MWM698620
	Sample Date		Client Info		16 Apr 2024	01 Apr 2020	01 Dec 2018
	Machine Age	hrs	Client Info		0	54669	51251
	Oil Age	hrs	Client Info		0	36	328
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Not Changd	N/A
	Filter Changed		Client Info		N/A	Not Changd	N/A
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	6	3	6
	Chromium	ppm	ASTM D5185m		1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1	<1	<1
	Titanium	ppm	ASTM D5185m		2	12	0
	Silver	ppm	ASTM D5185m	>5	<1	0	0
	Aluminum	ppm	ASTM D5185m	>12	4	1	3
	Lead	ppm	ASTM D5185m	>17	2	0	<1
	Copper	ppm	ASTM D5185m	>70	2	<1	<1
	Tin	ppm	ASTM D5185m	>15	1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	5	5
	Potassium	ppm	ASTM D5185m		3	0	2
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524		▲ 6.9	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.8	7.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	17.9	22.2
	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	Sodium	ppm	ASTM D5185m		9	2	2
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.	Boron	ppm	ASTM D5185m	151	337	102	372
	Barium	ppm	ASTM D5185m	0.4	<1	0	0
	Molybdenum	ppm	ASTM D5185m	250	108	32	85
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m	0	626	753	447
	Calcium	ppm	ASTM D5185m		1505	1488	1486
	Phoophorup		ACTM DE10Em	1040	770	000	0.01

Phosphorus

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 1043

ppm ASTM D5185m 5012

Abs/.1mm \*ASTM D7414 >25

ASTM D5185m 943

ASTM D445 14.4

ppm

Base Number (BN) mg KOH/g ASTM D2896 12.5

680

707

2748

12.2

8.5

13.3

891

2790

995

17.5

7.8

14.11

779

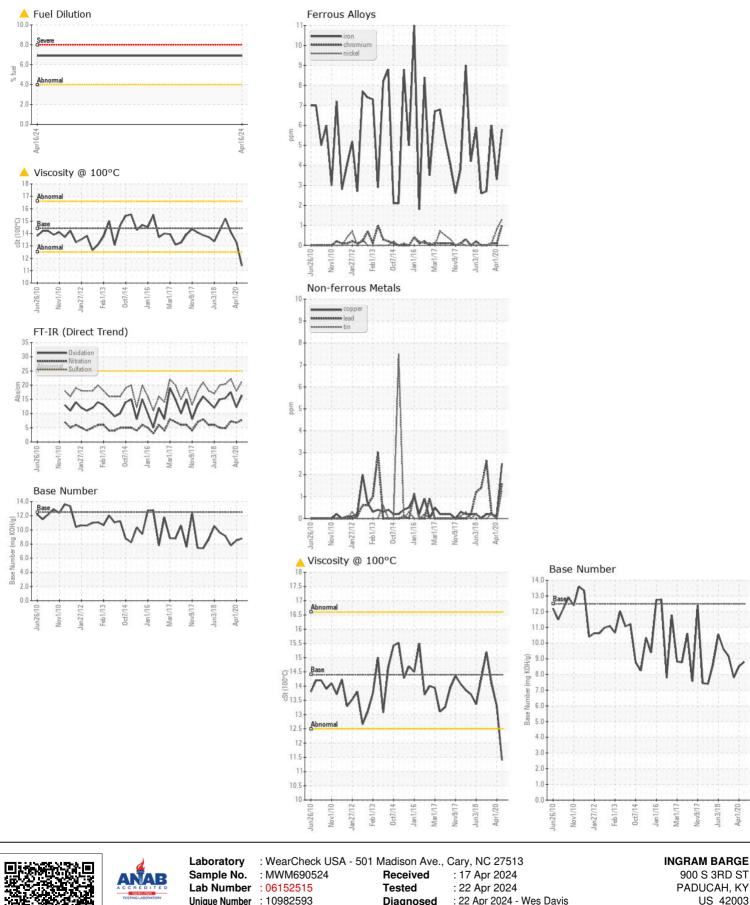
866

3059

16.4

8.8

11.4



Unique Number : 10982593 Diagnosed : 22 Apr 2024 - Wes Davis Test Package : MAR 2 (Additional Tests: FuelDilution, PercentFuel) Contact: JUSTIN WHEELER Certificate L2367 justin.wheeler@ingrambarge.com 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. F: (615)695-3697 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: JUSTIN WHEELER - INGPAD Page 2 of 2

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