

Machine Id **MV WAYNE C** Component **Port Main Engine** Fluid **CHEVRON DELO 400 SDE SAE 15W40 (15 GAL)**

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		MW0045782	MW0062736	MW0045781
	Sample Date		Client Info		06 May 2024		14 May 2023
	Machine Age	hrs	Client Info		22342	20627	19739
	Oil Age	hrs	Client Info		750	750	0
	Filter Age	hrs	Client Info		750	750	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR	Iron	nom	ASTM D5185m	> 75	35	22	56
WEAN	Chromium	ppm ppm	ASTM D5185m		2	1	4
The lead level is abnormal. All other component wear rates are normal.	Nickel	ppm		>2	 <1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		4	3	3
	Lead	ppm	ASTM D5185m		4 <u> </u> <u> </u> 23	12	▲ 36
	Copper	ppm	ASTM D5185m		5	2	5
	Tin	ppm	ASTM D5185m		-3 -<1	<1	1
	Vanadium	ppm	ASTM D5185m	214	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			violat	····		HOHE	HONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	8	6	8
There is a moderate amount of fuel present in the oil.	Potassium	ppm	ASTM D5185m	>20	3	0	2
	Fuel	%	ASTM D3524	>4.0	6 .6	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.2	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	11.7	10.8	13.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	24.7	27.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
	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		ASTM D5185m	. 75	2	2	0
	Boron	ppm	ASTM D5185m	>75		2 233	218
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.	Barium	ppm	ASTM D5185m		262 0	0	0
	Molybdenum	ppm	ASTM D5185m		124	119	143
	Manganese	ppm ppm	ASTM D5185m		<1 <1	<1	<1
	Magnesium	ppm	ASTM D5185m		651	701	719
	Calcium		ASTM D5185m		1462	1499	1664
	Phosphorus	ppm ppm	ASTM D5185m	760	728	736	762
	Zinc		ASTM D5185m		858	887	964
	Sulfur	ppm ppm	ASTM D5185m		2479	2370	2512
	Ovidation			3000	24/9	2370	2012

Oxidation

Visc @ 100°C cSt

Abs/.1mm *ASTM D7414 >25

ASTM D445 14.6

Base Number (BN) mg KOH/g ASTM D2896 10

26.1

7.1

12.1

30.3

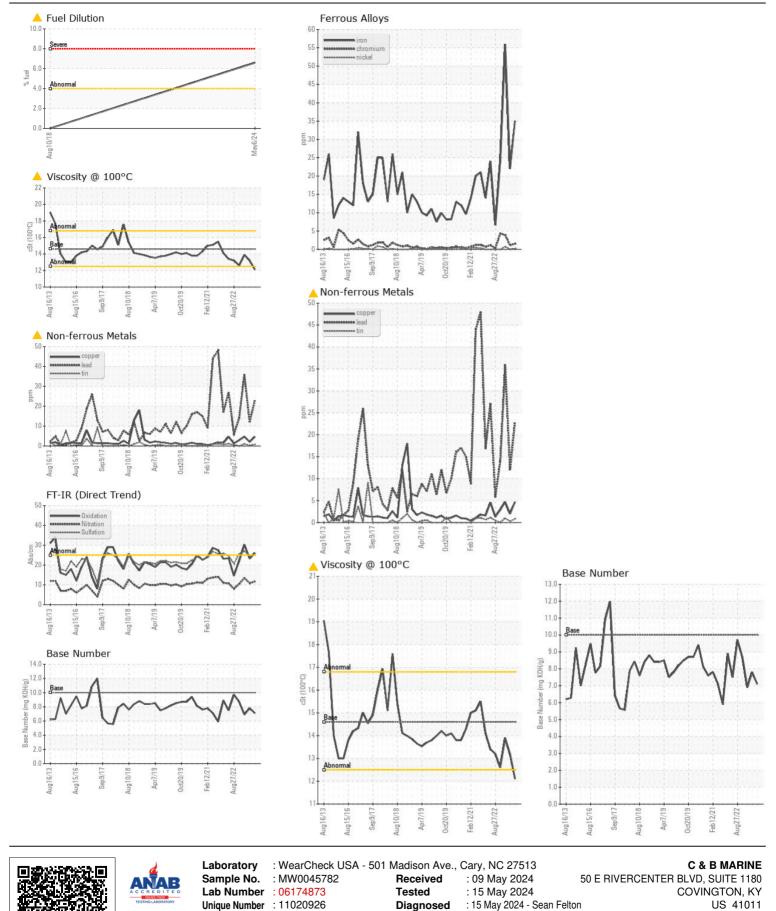
6.9

13.9

23.2

7.8

13.2



 Certificate L2367
 Test Package : MAR 2 (Additional Tests: FuelDilution, PercentFuel)
 Cont

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 dwest

 * - 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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