

MARK DULEY Machine Id [MARK DULEY] 001 298357-1 Port Main Engine

CHEVRON DELO 710 LS (240 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Becomple at the payt convice interval to manitar	Sample Number		Client Info		MW0068356	MW0068199	MW0068431
Resample at the next service interval to monitor.	Sample Date		Client Info		03 Jun 2024	18 May 2024	01 May 2024
	Machine Age	hrs	Client Info		44741	44381	43949
	Oil Age	hrs	Client Info		896	536	104
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>75	4	5	4
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>8	0	0	0
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m		2	1	<1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>80	<1	0	0
	Tin	ppm	ASTM D5185m	>14	<1	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	Silicon		ASTM D5185m	× 20	4	4	3
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no	Potassium	ppm	ASTM D5185m		4	0	0
	Fuel	ppm	WC Method	>20	4 <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.1	NEG	NEG	NEG
indication of any contamination in the oil.	Soot %	%	*ASTM D7844		0.2	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.2	6.6	5.4
	Sulfation	Abs/.1mm	*ASTM D7024		12.6	13.7	13.3
	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	>75	3	<1	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		41	46	46
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		43	45	45
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		13	11	12
	Calcium	ppm	ASTM D5185m		3510	3647	3676
	Phosphorus	ppm	ASTM D5185m		5	20	5
	Zinc	ppm	ASTM D5185m		0	0	0
	Sulfur	ppm	ASTM D5185m	05	2673	3030	2904

Oxidation

Visc @ 100°C cSt

7.0

14.4

9.58

6.4

14.7

9.91

6.6

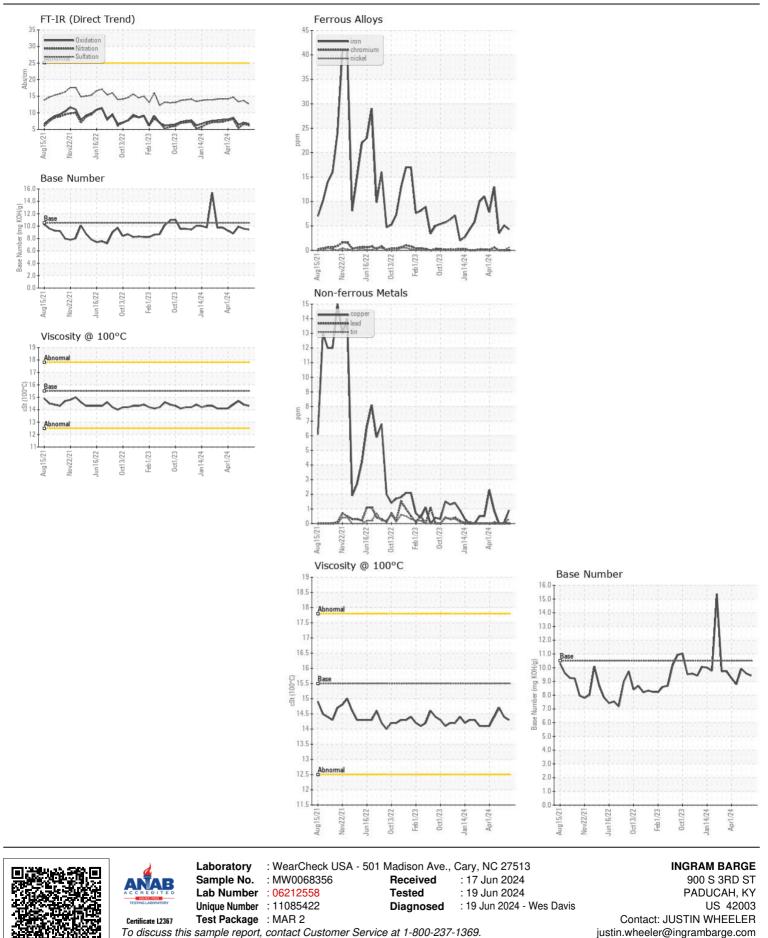
9.42

14.3

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.5

Base Number (BN) mg KOH/g ASTM D2896 10.5



• • 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) F: (615)695-3697

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

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