

CRYSTAL D TAYLOR [CRYSTAL D TAYLOR] 001 503329-1

Port Main Engine

CHEVRON DELO 710 LS (250 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		MW0055366	MW0055620	MW0055617
Resample at the next service interval to monitor.	Sample Date		Client Info		12 Jun 2024	29 May 2024	15 May 2024
	Machine Age	hrs	Client Info		49871	49544	49207
	Oil Age	hrs	Client Info		4340	0	952
	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	6	6	6
	Chromium	ppm	ASTM D5185m	>8	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
	Titanium	ppm	ASTM D5185m	>3	<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	<1	<1	<1
	Aluminum	ppm	ASTM D5185m	>15	3	3	3
	Lead	ppm	ASTM D5185m	>18	<1	<1	<1
	Copper	ppm	ASTM D5185m	>80	1	1	1
	Tin	ppm	ASTM D5185m	>14	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	4	4
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		3	3	3
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
indication of any contamination in the oil.	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	0.0	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624		7.6	7.4	7.0
	Sulfation	Abs/.1mm	*ASTM D7415		14.4	14.1	13.8
	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	0	0	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		45	44	45
	Barium	ppm	ASTM D5185m		1	1	1
	Molybdenum	ppm	ASTM D5185m		46	45	46
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		12	11	11
	Calcium	ppm	ASTM D5185m		3304	3252	3272
	Phosphorus	ppm	ASTM D5185m		17	28	18
	Zinc	ppm	ASTM D5185m		7	12	6
	Sulfur	ppm	ASTM D5185m		2383	2398	2323

Oxidation

Visc @ 100°C cSt

8.1

9.26

14.3

7.7

9.06

14.2

7.3

14.2

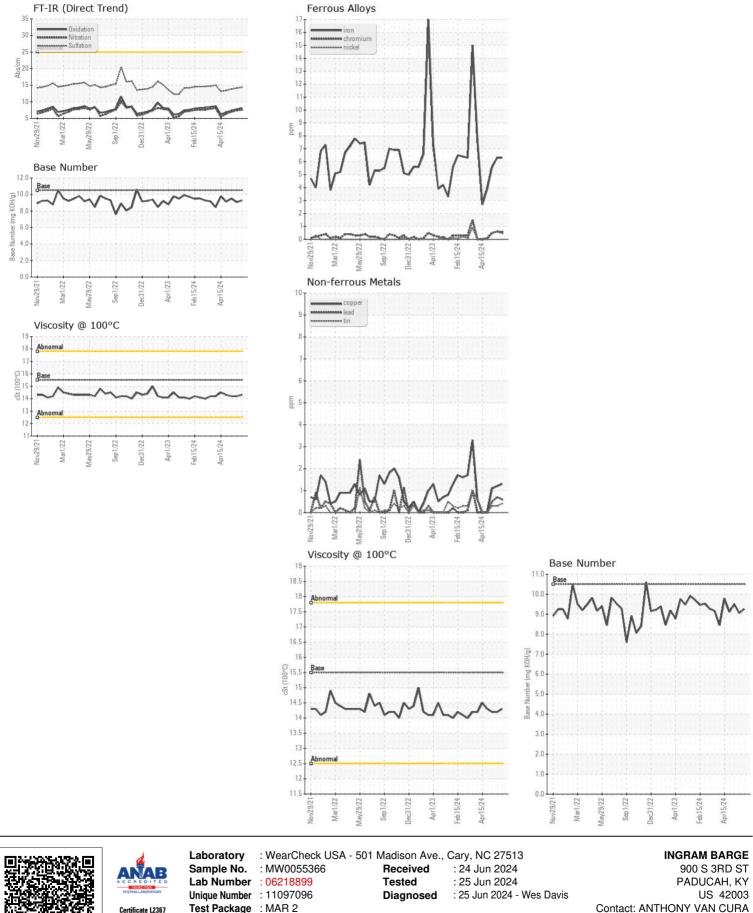
9.50

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.5

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

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



Test Package : MAR 2 Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. anthony.vancura@ingrambarge.com * - 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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