

## Area Y.S. CHI [Y.S. CHI] 001 503877-1 Port Main Engine CHEVRON DELO 710 LS (350 GAL)

CHEVRON DELO / 10 LS (350 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		MW0061234	MW0061226	MW0055628
	Sample Date		Client Info		05 Nov 2023	01 Nov 2023	29 Oct 2023
	Machine Age	hrs	Client Info		28824	28728	28656
	Oil Age	hrs	Client Info		2126	2030	1956
	Filter Age	hrs	Client Info		298	202	130
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>75	7	4	4
	Chromium	ppm	ASTM D5185m	>8	0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	1	2
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		2	<1	<1
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION Elevated aluminum (Al) 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 indication of any contamination in the oil.	Silicon		ASTM D5185m	> 20	5	5	4
	Potassium	ppm ppm	ASTM D5185m		4	0	2
	Fuel	ppm	WC Method	>4.0	- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.4	0.4
	Nitration	Abs/cm	*ASTM D7644	>20	8.0	8.0	7.9
	Sulfation	Abs/.1mm	*ASTM D7024		14.7	15.1	15.0
	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		*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium		ACTM DE10E~	、7F	0	0	
	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	>10	0 36	0 38	<1 43
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.		ppm					
	Barium	ppm	ASTM D5185m		0 46	0 43	0 45
	Molybdenum	ppm	ASTM D5185m				
	Manganese	ppm	ASTM D5185m		0 12	<1 12	<1 15
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m				
		ppm			3313	3319	3190
	Phosphorus	ppm	ASTM D5185m		34	2	1
	Zinc	ppm	ASTM D5185m		0	0	0
	Sulfur	ppm	ASTM D5185m	05	2280	2238	2223
	Oxidation	Abs/.1mm	*ASTM D7414		8.5	8.6	8.5
	Base Number (BN)	ng kUH/g	ASTM D2896	10.5	9.00	8.99	6.93

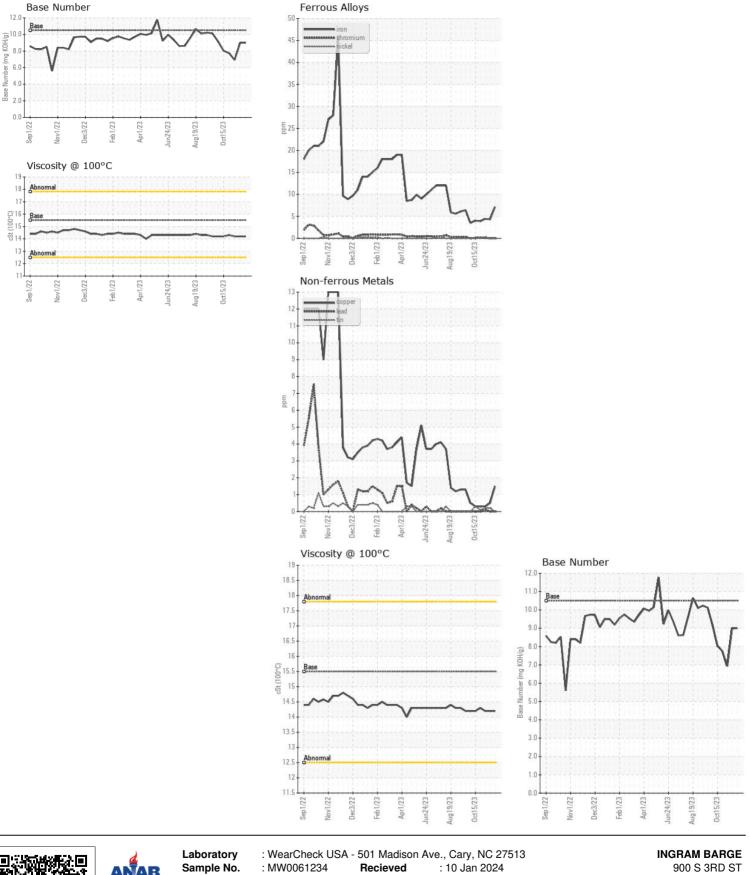
Visc @ 100°C cSt

14.2

14.2

ASTM D445 15.5

14.2



PADUCAH, KY Lab Number : 06057469 Diagnosed : 12 Jan 2024 : 10823418 : Wes Davis US 42003 Unique Number Diagnostician Test Package : MAR 2 Contact: ANTHONY VAN CURA 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. T: (270)415-4467 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (615)695-3697

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