

OH INGRAM [OH INGRAM] 002 645896-2 Component Center Main Engine

CHEVRON DELO 710 LE (285 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		MW0070745	MW0063314	MW0064799
Resample at the next service interval to monitor.	Sample Date		Client Info		01 Jul 2024	01 May 2024	01 Feb 2024
	Machine Age	hrs	Client Info		30398	29009	28677
	Oil Age	hrs	Client Info		1679	290	28677
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	Not Changd
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>75	10	7	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>8	<1	<1	1
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m	>3	<1	0	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>15	2	1	2
	Lead	ppm	ASTM D5185m	>18	2	2	3
	Copper	ppm	ASTM D5185m	>80	12	5	13
	Tin	ppm	ASTM D5185m		3	<1	3
	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	>20	4	3	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 indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	1	<1
	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	7.0	9.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.4	14.9	17.3
	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	5	1	6
	Boron	ppm	ASTM D5185m		41	48	40
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		48	46	47
	Manganese	ppm	ASTM D5185m		1	<1	1
	Magnesium	ppm	ASTM D5185m		12	15	21
	Calcium	ppm	ASTM D5185m		3654	3620	3633
	Phosphorus	ppm	ASTM D5185m		11	5	10
	Zinc	ppm	ASTM D5185m	10	7	18	6
	Culture		ACTM DE10Em		0000	0741	0040

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896 9.2

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.5

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2741

10.21

7.7

15.0

2348

10.3

15.2

9.70

2269

9.2

9.30

15.1

WEAR

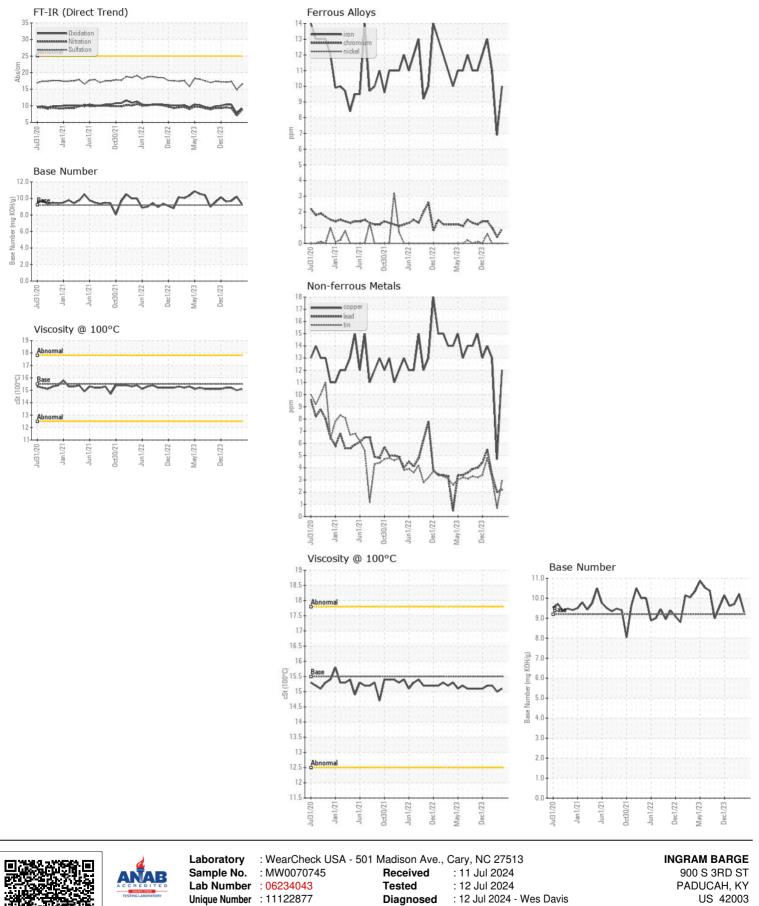
CONTAMINATION

FLUID CONDITION

NORMAL

NORMAL

NORMAL



Test Package : MAR 2 Contact: ALLEN WILLHELM Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. allen.willhelm@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)

Contact/Location: ALLEN WILLHELM - INGPAD Page 2 of 2

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