

JOHN NUGENT (S/N 74-F1-1144) Component Port Main Engine

CHEVRON DELO 710 LS (365 GAL)

CHEVNON DELO / 10 LO (303 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		MW0053316	MW0050225	MW0057436
	Sample Date		Client Info		15 Feb 2024	15 Jan 2024	15 Dec 2023
	Machine Age	hrs	Client Info		15408	14664	13920
	Oil Age	hrs	Client Info		15408	14664	13920
	Filter Age	hrs	Client Info		1010	206	797
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>75	16	12	12
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	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>15	1	1	<1
	Lead	ppm	ASTM D5185m		1	1	2
	Copper	ppm	ASTM D5185m		12	9	10
	Tin	ppm	ASTM D5185m	>14	3	3	2
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	2	2	2
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.	Potassium	ppm	ASTM D5185m	>20	5	<1	0
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		1.4	1.3	1.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.1	7.2
	Sulfation	Abs/.1mm	*ASTM D7415		16.8	16.2	16.0
	Silt Debris	scalar scalar	*Visual *Visual	NONE NONE	NONE 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	ppm	ASTM D5185m	>75	3	<1	1
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		46	42	37
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		55	43	42
	Manganese	ppm	ASTM D5185m		0	<1	<1 23
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		32 3888	12 3324	3341
	Phosphorus	ppm ppm	ASTM D5185m		18	3	9
	Zinc	ppm	ASTM D5185m		24	0	16
	Sulfur	ppm	ASTM D5185m		24	2179	1933
	Oxidation	Abs/.1mm	*ASTM D510511	>25	7.5	7.0	7.2
				~LJ	1.5	1.0	1.4

6.1

15.5

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

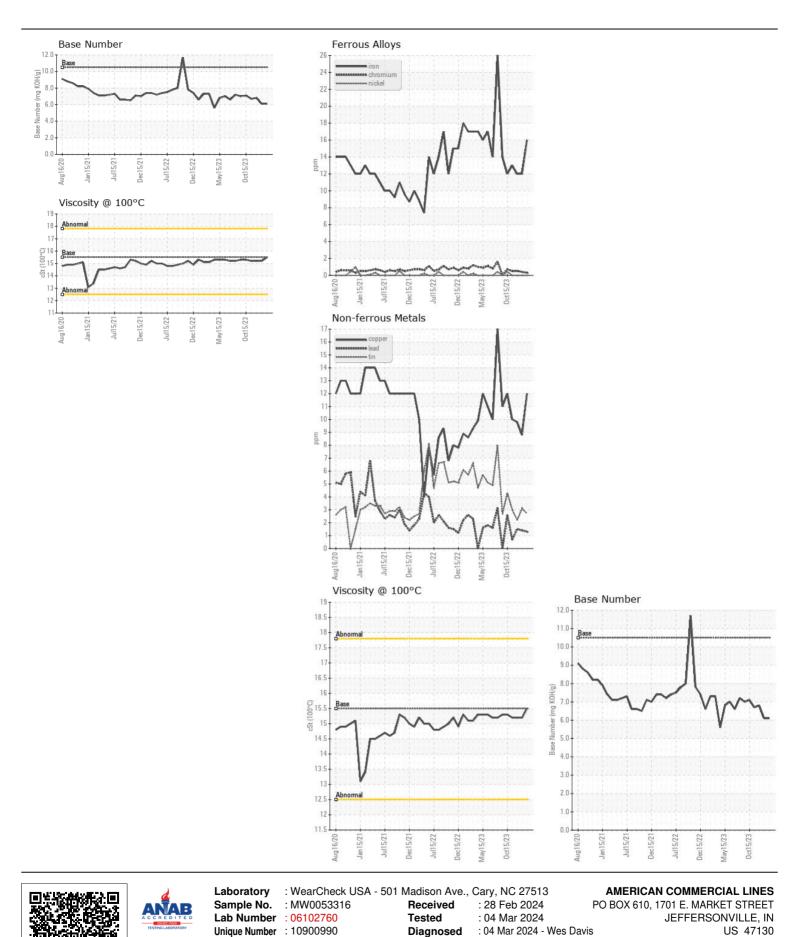
ASTM D445 15.5

Visc @ 100°C cSt

15.2

6.1 6.8

15.2



Test Package : MAR 2 Contact: RONALD SCHNEIDER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ronald.schneider@bargeacbl.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) F: (812)288-1644

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