

Machine Id PRS Port Main Engine CHEVRON DELO 400 XLE 15W40 (28 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		MW06017188	MW05862885	MW05823805
	Sample Date		Client Info		23 Nov 2023	01 Jun 2023	18 Apr 2023
	Machine Age	hrs	Client Info		30314	29382	28178
	Oil Age	hrs	Client Info		508	623	650
	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	ATTENTION	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>75	2	2	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>8	<1	0	<1
	Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
	Titanium	ppm	ASTM D5185m	>3	2	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>15	2	0	0
	Lead	ppm	ASTM D5185m	>18	0	0	0
	Copper	ppm	ASTM D5185m	>80	<1	<1	<1
	Tin	ppm	ASTM D5185m	>14	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	0'''					4	~
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	ppm	ASTM D5185m		4	4	5
	Potassium	ppm	ASTM D5185m		4	5	11
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol	0/	WC Method		NEG	NEG	NEG
	Soot % Nitration	%	*ASTM D7844	00	0.1 5.7	0.1 5.8	0.1
	Sulfation	Abs/cm	*ASTM D7624	>20		21.3	22.1
	Silt	Abs/.1mm	*ASTM D7415 *Visual		20.2 NONE	NONE	NONE
	Debris	scalar	*Visual	NONE NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
			13001	20.1			NLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>75	3	5	4
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		212	264	266
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		81	87	105
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		605	522	565
	Calcium	ppm	ASTM D5185m		1240	1637	1310
	Phosphorus	ppm	ASTM D5185m	760	708	748	696
	Zinc	ppm	ASTM D5185m	830	931	899	842
	Sulfur	ppm	ASTM D5185m	2770	3188	3231	2427

Oxidation

Visc @ 100°C cSt

15.1

8.3

12.4

15.2

7.9

12.9

Abs/.1mm *ASTM D7414 >25

ASTM D445 14.9

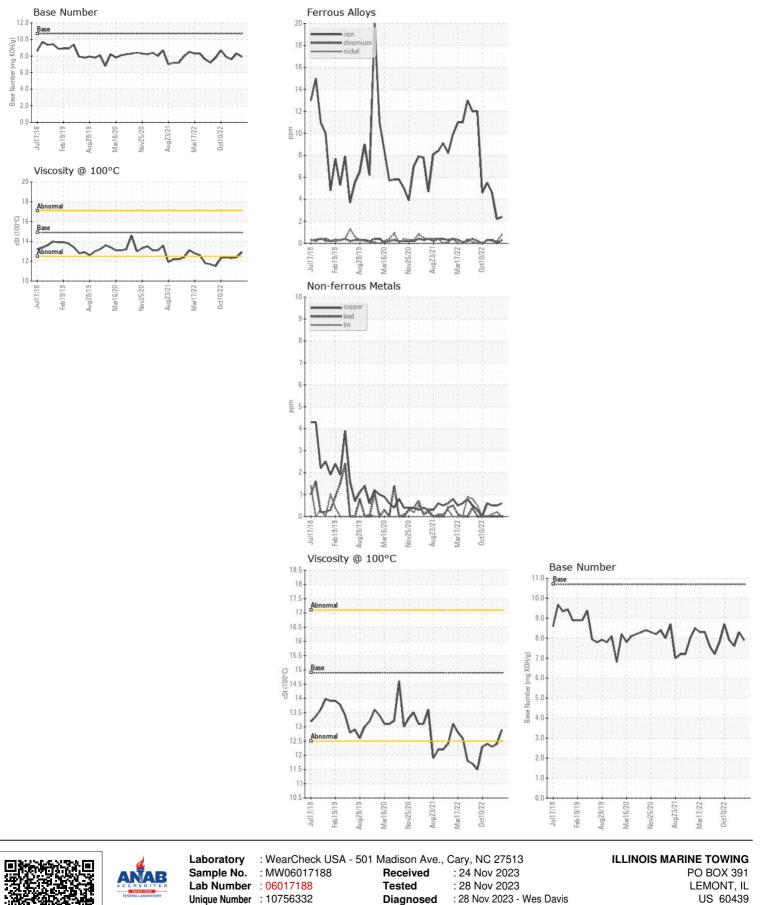
Base Number (BN) mg KOH/g ASTM D2896 10.7

16.8

7.6

12.3

NORMAL WEAR NORMAL CONTAMINATION FLUID CONDITION NORMAL



Test Package : MAR 2 Contact: RHETT DANIEL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. rdaniel@imtowing.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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Contact/Location: RHETT DANIEL - AMELEMIL

T: (630)280-4926

F: (630)739-2041