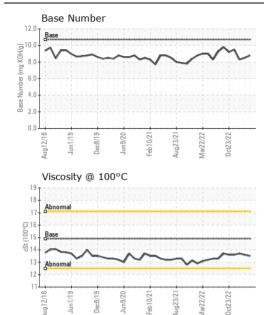
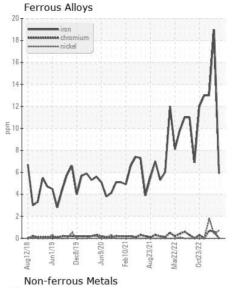
WEAR CONTAMINATION FLUID CONDITION

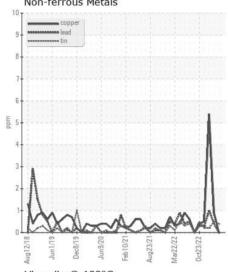
NORMAL NORMAL

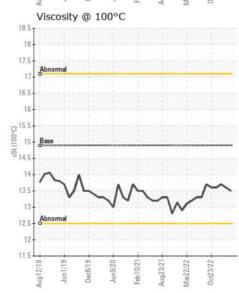
Machine Id

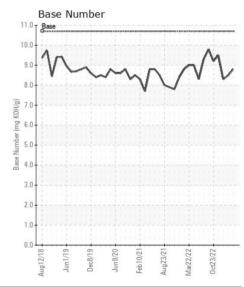
Component Port Main Engine Fluid							
CHEVRON DELO 400 XLE 15W40 (GAL)							
	T4		NA-All	Line is /Allen	(2	1.18-4	I l'atam O
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		MW06017160	MW05981745	
	Sample Date	bro	Client Info		23 Nov 2023	16 Oct 2023 36173	19 Jan 2023
	Machine Age	hrs	Client Info		36904		36083
	Oil Age Filter Age	hrs hrs	Client Info		731 0	90	3295
	Oil Changed	1115	Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A N/A	N/A	N/A
	Sample Status		Ciletit IIIIO		NORMAL	NORMAL	NORMAL
					INORIVIAL	INOTTIVIAL	
WEAR	Iron	ppm	ASTM D5185m	>75	6	19	13
	Chromium	ppm	ASTM D5185m	>8	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	<1	<1	2
	Titanium	ppm	ASTM D5185m	>3	<1	1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>15	3	3	0
	Lead	ppm	ASTM D5185m	>18	0	<1	1
	Copper	ppm	ASTM D5185m	>80	0	<1	5
	Tin	ppm	ASTM D5185m	>14	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTANUNATION	0.11.		AOTM DE LOE		_		_
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		5	6	7
	Potassium	ppm	ASTM D5185m		4	2	<1
	Fuel			>4.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG NEG	NEG NEG
	Glycol Soot %	%	*ASTM D7844		NEG 0.8	1.1	1
	Nitration	Abs/cm	*ASTM D7624	>20	5.8	6.6	6.4
	Sulfation	Abs/.1mm	*ASTM D7024		22.0	21.5	21.2
	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	ppm	ASTM D5185m	>75	3	0	<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		287	237	3
	Barium	ppm	ASTM D5185m		0	10	0
	Molybdenum	ppm	ASTM D5185m		97	87	55
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		527	458	885
	Calcium	ppm	ASTM D5185m	=0.0	1432	1499	1054
	Phosphorus	ppm	ASTM D5185m		856	880	992
	Zinc	ppm	ASTM D5185m	830	948	1044	1165
	Sulfur	ppm	ASTM D5185m		2769	3101	2789
	Oxidation	Abs/.1mm	*ASTM D7414		14.7	14.7	14.3
	Base Number (BN)	0 0			8.8	8.5	8.3
	Visc @ 100°C	cSt	ASTM D445	14.9	13.5	13.6	13.7













Certificate L2367

Laboratory Sample No.

: MW06017160 Lab Number : 06017160 Unique Number : 10756304 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Nov 2023 **Tested** : 28 Nov 2023

Diagnosed

: 28 Nov 2023 - Wes Davis

ILLINOIS MARINE TOWING

PO BOX 391 LEMONT, IL US 60439

Contact: RHETT DANIEL rdaniel@imtowing.com

T: (630)280-4926 F: (630)739-2041

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)