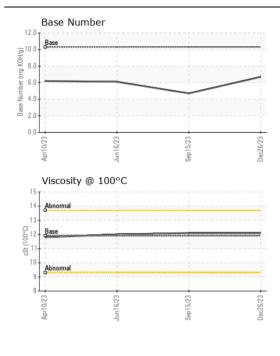


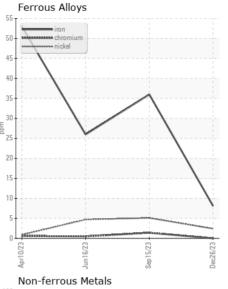
**WEAR** CONTAMINATION **FLUID CONDITION** 

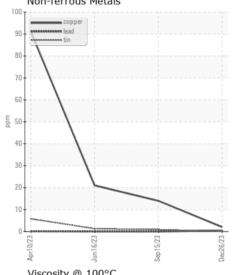
**NORMAL NORMAL NORMAL** 

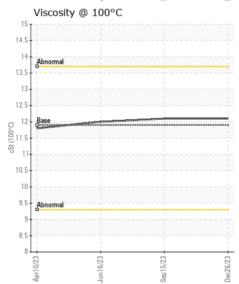
Machine Id 3199

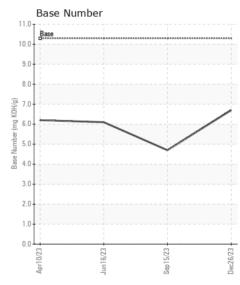
Component Diesel Engine							
CHEVRON DELO 400 XLE 10W30 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0833242		WC0833141
	Sample Date		Client Info		26 Dec 2023	15 Sep 2023	16 Jun 2023
	Machine Age	mls	Client Info		124657	88145	42973
	Oil Age	mls	Client Info		36449	45172	24162
	Filter Age	mls	Client Info		36449	45172	24162
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	8	36	26
	Chromium	ppm	ASTM D5185m		0	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	5	5
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m		19	13	20
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		2	14	21
	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	ppm	ASTM D5185m		6	9	7
	Potassium	ppm	ASTM D5185m		54	32	47
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.7	0.6
	Nitration	Abs/cm	*ASTM D7624		8.2	11.5	9.5
	Sulfation	Abs/.1mm	*ASTM D7415		20.4	27.1	21.7
	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	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	4	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		99	15	27
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		2	1	3
	Manganese	ppm	ASTM D5185m		0	<1	1
	Magnesium	ppm	ASTM D5185m		100	777	815
	Calcium	ppm	ASTM D5185m	2900	1866	1391	1459
	Phosphorus	ppm	ASTM D5185m	1100	829	732	721
	Zinc	ppm	ASTM D5185m	1200	1110	952	953
	Sulfur	ppm	ASTM D5185m	4000	3030	3434	3503
	Oxidation	Abs/.1mm	*ASTM D7414		16.4	23.0	16.8
	Base Number (BN)	mg KOH/g			6.7	4.7	6.1
	Visc @ 100°C	cSt	ASTM D445	11.9	12.1	12.1	12.0













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: WC0833242 : 06057671 : 10823620

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed Diagnostician

: 11 Jan 2024 : 12 Jan 2024 : Sean Felton

LTI/MILKY WAY - MOSES 120 WISER LANE MOSES LAKE, WA

US 98837 Contact: MIGUEL PEREZ

mperez@lynden.com; dougb@wearcheckusa.com

T: (509)765-5840 F: (500)765-5636

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)