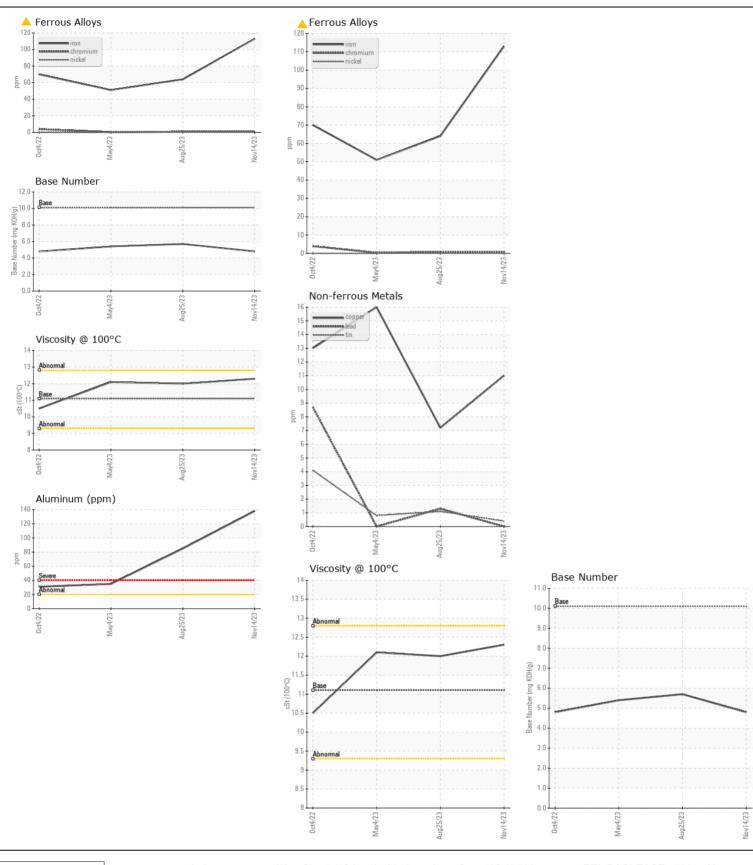


**WEAR** CONTAMINATION **FLUID CONDITION** 

**ABNORMAL** NORMAL **NORMAL** 

Machine Id **857-4894** 

Component Diesel Engine							
CHEVRON DELO 400 SAE 10W30 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TIEGO IIIIII ENDATION	Sample Number	00	Client Info	21111071011	RPL0014638	RPL0011002	
Resample at the next service interval to monitor.	Sample Date		Client Info		14 Nov 2023	25 Aug 2023	04 May 2023
	Machine Age	hrs	Client Info		2280	1826	17379
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	<u> </u>	64	51
The state of the s	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
The iron level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	138	85	35
	Lead	ppm	ASTM D5185m	>40	0	1	0
	Copper	ppm	ASTM D5185m	>330	11	7	16
	Tin	ppm		>15	<1	1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	16	12	14
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		327	192	125
	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 O.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	12.5	10.7	10.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	27.4	22.8	24.4
	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		4	5	6
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		21	28	26
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		18	17	11
	Manganese	ppm	ASTM D5185m		1	1	2
	Magnesium	ppm	ASTM D5185m		780	695	627
	Calcium	ppm	ASTM D5185m	1000	1479	1319	1408
	Phosphorus	ppm	ASTM D5185m		785	671	674
	Zinc	ppm	ASTM D5185m	1400	908	828	786
	Sulfur	ppm	ASTM D5185m	05	3281	2743	3121
	Oxidation	Abs/.1mm	*ASTM D7414		23.9	18.3	20.0
	Base Number (BN)		ASTM D2896		4.8	5.7	5.4
	Visc @ 100°C	cSt	ASTM D445	11.1	12.3	12.0	12.1







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: RPL0014638 : 06056158 : 10822107 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 10 Jan 2024 Diagnosed : 11 Jan 2024 : Angela Borella Diagnostician

RTL PACLEASE - 7001 - Houston

6300 N. Loop East Houston, TX US 77026 Contact: RODNEY BRIGGS

briggsr@rushenterprises.com T:

\* - 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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