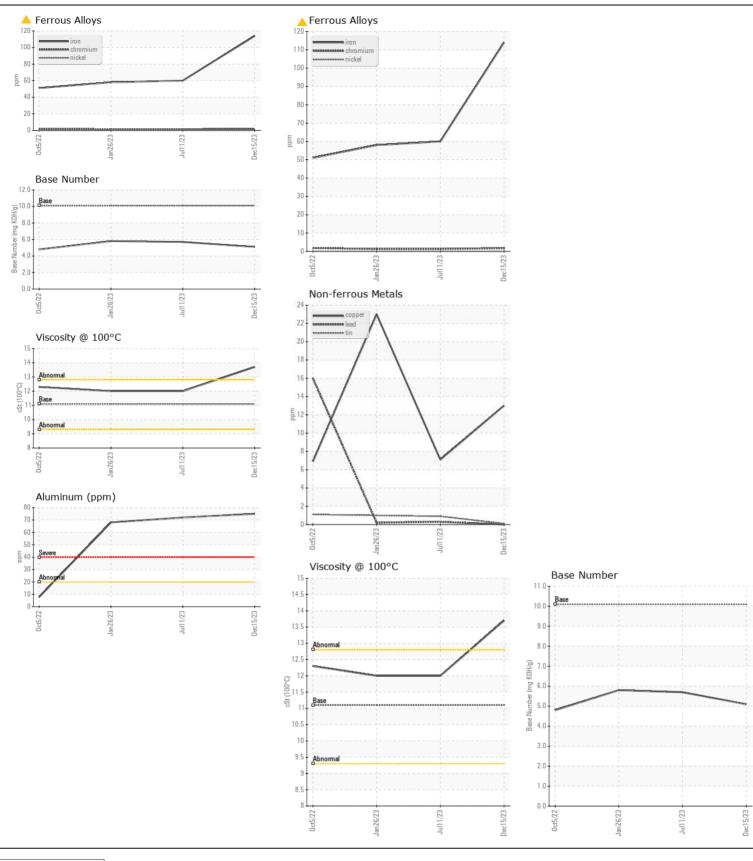


**WEAR** CONTAMINATION **FLUID CONDITION** 

**ABNORMAL** NORMAL **NORMAL** 

Machine Id **857-4912** 

Component							
Diesel Engine							
CHEVRON DELO 400 SAE 10W30 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		RPL0014018	RPL0010328	RPL0005583
	Sample Date		Client Info		15 Dec 2023	11 Jul 2023	26 Jan 2023
	Machine Age	hrs	Client Info		2753	0	18799
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	Not Changd
	Filter Changed		Client Info		N/A	N/A	Not Changd
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	<u> </u>	60	58
WEAT	Chromium	ppm	ASTM D5185m		2	1	1
Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	7 7	0	<1	<1
	Silver	ppm	ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		75	72	68
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		13	7	23
	Tin	ppm		>15	<1	, <1	1
	Vanadium	ppm	ASTM D5185m	710	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	17	14	13
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	204	194	210
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	13.8	11.4	11.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	30.4	24.3	23.5
	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		*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	6	1
	Boron	ppm	ASTM D5185m		103	29	44
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		31	24	19
	Manganese	ppm	ASTM D5185m		<1	1	2
	Magnesium	ppm	ASTM D5185m		649	749	640
	Calcium	ppm	ASTM D5185m		1566	1573	1413
	Phosphorus	ppm	ASTM D5185m	1260	889	814	706
	Zinc	ppm	ASTM D5185m		1077	993	870
	Sulfur	ppm	ASTM D5185m		3423	3779	2934
	Oxidation	Abs/.1mm	*ASTM D7414	>25	28.4	19.4	19.2
	Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.1	5.7	5.8
	Base Hamber (Bit)	mg nomg	710 TIVI DE000	10.1	· · · ·	0.7	0.0







Certificate L2367

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

: RPL0014018 : 06056189 : 10822138 Test Package : FLEET

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

RTL PACLEASE - 7001 - Houston 6300 N. Loop East Houston, TX

US 77026 Contact: RODNEY BRIGGS briggsr@rushenterprises.com

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)

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F: