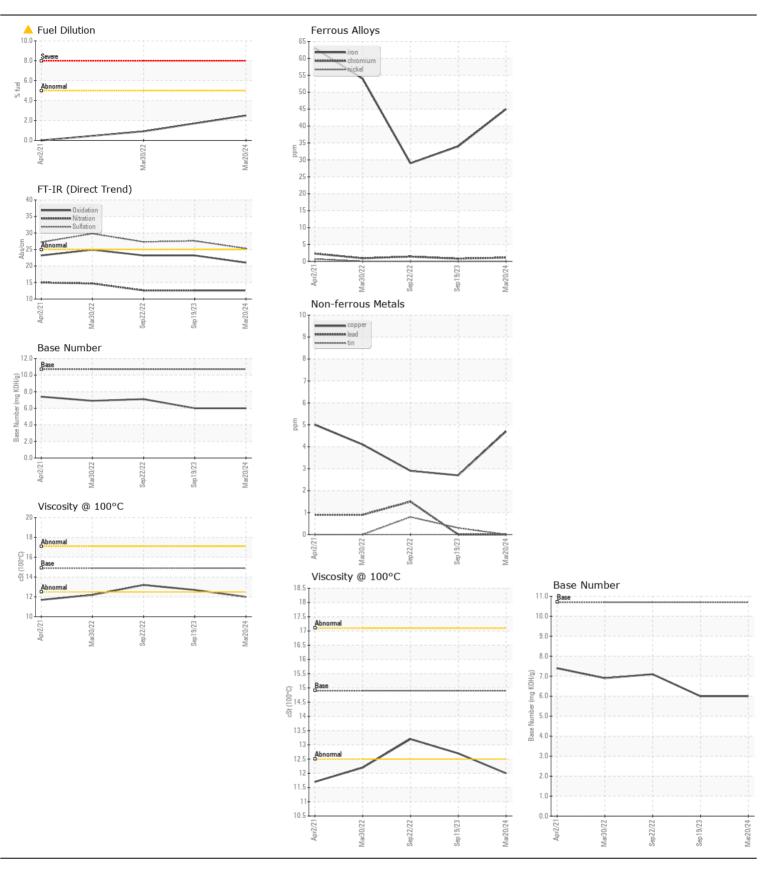
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL ATTENTION

Machine Id

349606-152250

Component Diesel Engine							
CHEVRON DELO 400 XLE 15W40 (QTS)							
DECOMMENDATION	T4		Mathaal	1 : no : k / A lo no	O	I Batan d	L links m.O
RECOMMENDATION The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.	Test	UOM	Method	Limit/Abn	Current RY0123438	History1 RY0123232	History2 RY0123165
	Sample Number Sample Date		Client Info		20 Mar 2024	19 Sep 2023	22 Sep 2022
	Machine Age	mls	Client Info		14000	0	0
	Oil Age	mls	Client Info		0	17000	12000
	Filter Age	mls	Client Info		0	0	0
	Oil Changed	11113	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Oliciti iiilo		ATTENTION	NORMAL	NORMAL
WEAD			AOTA DEADE	400	4=	0.4	
WEAR	Iron	ppm	ASTM D5185m		45	34	29
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		1	<1	1
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m	0	0	0	<1
	Silver	ppm	ASTM D5185m	-	0	0	<1
	Aluminum	ppm	ASTM D5185m		9	7	10
	Lead	ppm	ASTM D5185m	-	0	0	2
	Copper	ppm	ASTM D5185m		5	3	3
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	*Visual	NONE	0 NONE	0 NONE	<1 NONE
	White Metal	scalar		NONE			
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION Light fuel dilution occurring. No other contaminants were detected in the oil.	Silicon	ppm	ASTM D5185m	>25	8	8	7
	Potassium	ppm	ASTM D5185m	>20	7	7	8
	Fuel	%	ASTM D3524	>5	2.5	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.9	1	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	12.6	12.6	12.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.3	27.6	27.3
	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	3	6
	Boron	ppm	ASTM D5185m		27	34	66
Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		17	61	79
	Manganese	ppm	ASTM D5185m		<1	<1	2
	Magnesium	ppm	ASTM D5185m		659	561	549
	Calcium	ppm	ASTM D5185m		1383	1383	1444
	Phosphorus	ppm	ASTM D5185m	760	779	813	779
	Zinc	ppm	ASTM D5185m	830	907	1069	1013
	Sulfur	ppm	ASTM D5185m	2770	3320	2852	3111
	Oxidation	Abs/.1mm	*ASTM D7414		21.0	23.2	23.2
	Base Number (BN)				6.0	6.0	7.1
	Visc @ 100°C	cSt	ASTM D445	14.9	12.0	12.7	13.2







Certificate L2367

Laboratory Sample No.

: RY0123438 Lab Number : 06187307

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

Unique Number : 11044059

Received : 22 May 2024 **Tested**

: 28 May 2024

Diagnosed : 28 May 2024 - Wes Davis

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Ryder Transportation Services

240 NE 71 ST MIAMI, FL US 33138

Contact: ANTHONY INGRAM anthonyingram@creamoland.com

T: F:

* - 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)