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

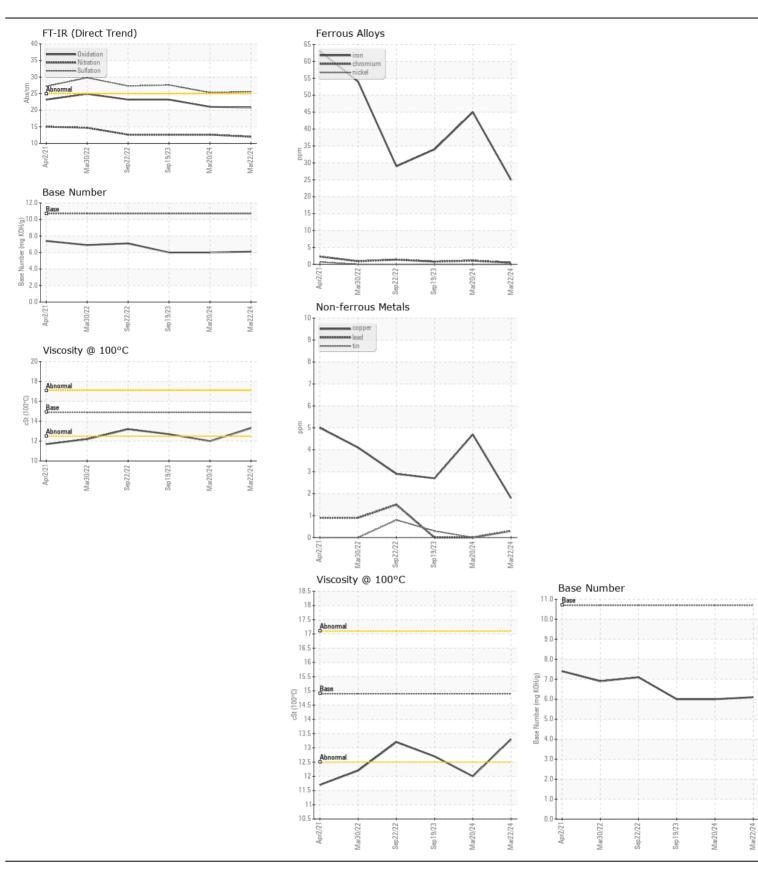
**NORMAL NORMAL NORMAL** 

Machine Id

349606-152250

Diesel Engine

CHEVRON DELO 400 XLE 15W40 ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		RY0123441	RY0123438	RY0123232
Resample at the next service interval to monitor.	Sample Date		Client Info		22 Mar 2024	20 Mar 2024	19 Sep 2023
	Machine Age	mls	Client Info		14000	14000	0
	Oil Age	mls	Client Info		0	0	17000
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL		NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	25	45	34
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	1	<1
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	9	9	7
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m	>330	2	5	3
	Tin	ppm	ASTM D5185m	>15	<1	0	<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	7	8	8
	Potassium	ppm	ASTM D5185m	>20	4	7	7
There is no indication of any contamination in the oil.	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	0.9	1
	Nitration	Abs/cm	*ASTM D7624	>20	12.0	12.6	12.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.6	25.3	27.6
	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		3	4	3
	Boron	ppm	ASTM D5185m		101	<b>27</b>	34
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		85	<b>1</b> 7	61
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		467	659	561
	Calcium	ppm	ASTM D5185m		1449	1383	1383
	Phosphorus	ppm	ASTM D5185m	760	967	779	813
	Zinc	ppm	ASTM D5185m		1170	907	1069
	Sulfur	ppm	ASTM D5185m	2770	3350	3320	2852
	Oxidation	Abs/.1mm	*ASTM D7414	_	20.8	21.0	23.2
	Base Number (BN)	mg KOH/g	ASTM D2896	10.7	6.1	6.0	6.0
	Visc @ 100°C	cSt	ASTM D445	149	13.3	12.0	12.7







Certificate L2367

Laboratory Sample No.

Lab Number : 06187304 Unique Number : 11044056

: RY0123441 Test Package : FLEET

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

Diagnosed

: 23 May 2024 : 24 May 2024 - Sean Felton

: 22 May 2024

US 33138 Contact: ANTHONY INGRAM

**Ryder Transportation Services** 

anthonyingram@creamoland.com T:

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)

240 NE 71 ST

MIAMI, FL

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