



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**349628-152264**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 XLE 10W30 (--- QTS)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. 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	History1	History2
Sample Number		Client Info		<b>RY0123444</b>	RY0123218	RY0123185
Sample Date		Client Info		<b>26 Jan 2024</b>	23 Dec 2022	06 Jul 2022
Machine Age	mls	Client Info		<b>6000</b>	0	0
Oil Age	mls	Client Info		<b>0</b>	7000	8000
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>16</b>	23	27
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	6	7
Lead	ppm	ASTM D5185m	>40	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>2</b>	1	2
Tin	ppm	ASTM D5185m	>15	<b>1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

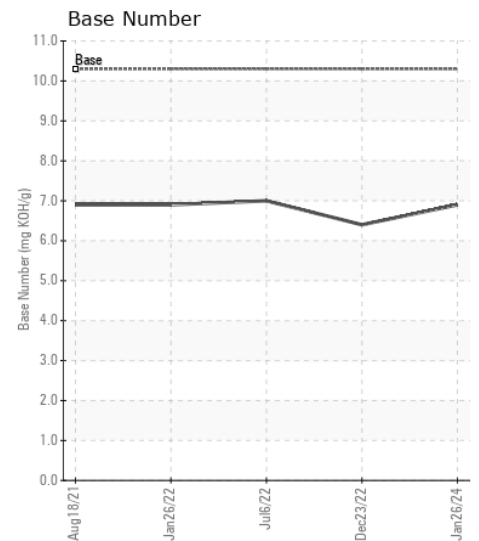
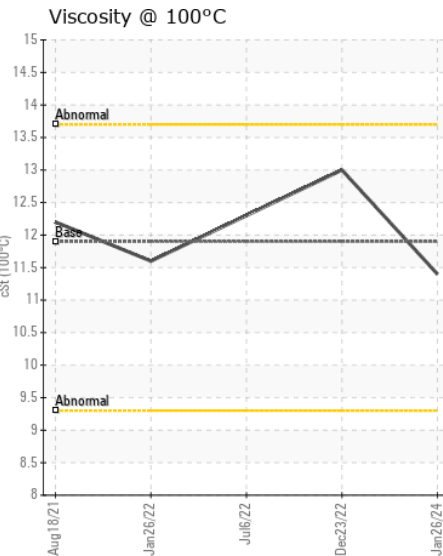
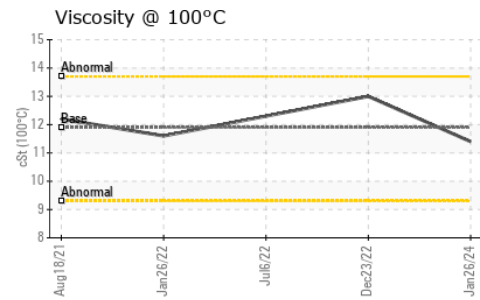
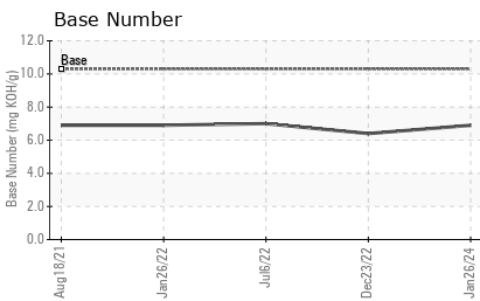
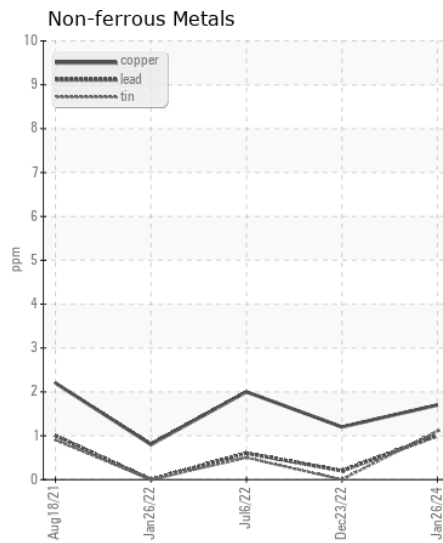
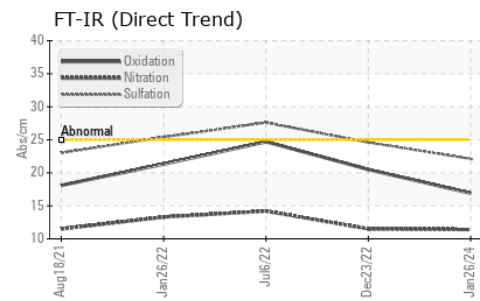
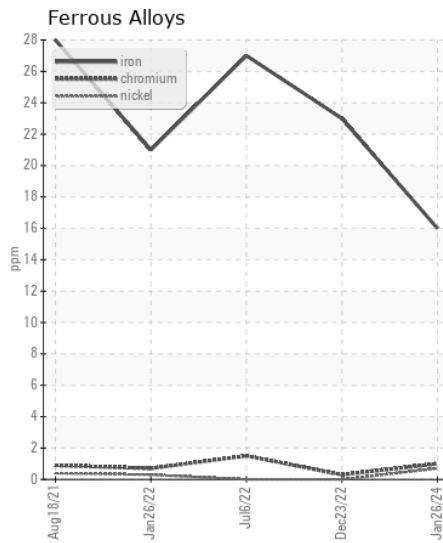
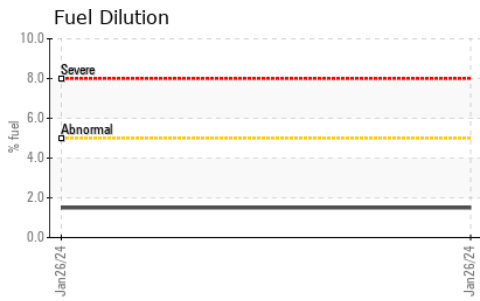
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	6	7
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	3	4
Fuel	%	ASTM D3524	>5	<b>1.5</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>1</b>	0.6	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.4</b>	11.5	14.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.1</b>	24.6	27.6
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	2	6
Boron	ppm	ASTM D5185m		<b>84</b>	97	44
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>41</b>	85	63
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m		<b>588</b>	495	599
Calcium	ppm	ASTM D5185m	2900	<b>1276</b>	1516	1411
Phosphorus	ppm	ASTM D5185m	1100	<b>788</b>	850	628
Zinc	ppm	ASTM D5185m	1200	<b>899</b>	1109	810
Sulfur	ppm	ASTM D5185m	4000	<b>3258</b>	3293	2821
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.9</b>	20.5	24.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	<b>6.9</b>	6.4	7.0
Visc @ 100°C	cSt	ASTM D445	11.9	<b>11.4</b>	13.0	12.3



Certificate L2367

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

**Sample No.** : RY0123444

**Lab Number** : 06187331

**Unique Number** : 11044083

**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**Received** : 22 May 2024

**Tested** : 28 May 2024

**Diagnosed** : 28 May 2024 - Wes Davis

**Ryder Transportation Services**

240 NE 71 ST

MIAMI, FL

US 33138

Contact: ANTHONY INGRAM

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T:

F:

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)