



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
349608/152252
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 XLE 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RY0123447	RY0123230	RY0123161
Sample Date		Client Info		23 Feb 2024	14 Sep 2023	23 Aug 2022
Machine Age	mls	Client Info		6000	0	0
Oil Age	mls	Client Info		0	13000	5000
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	17	18	16
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	1	0	<1
Aluminum	ppm	ASTM D5185m	>20	6	4	6
Lead	ppm	ASTM D5185m	>40	2	2	7
Copper	ppm	ASTM D5185m	>330	224	55	▲ 146
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

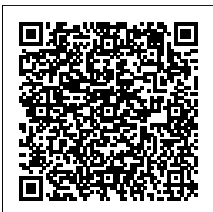
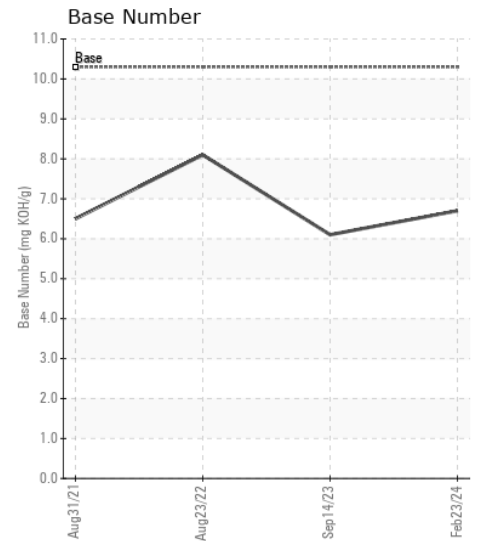
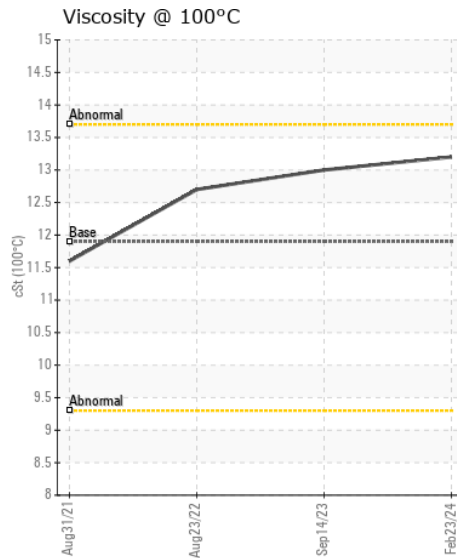
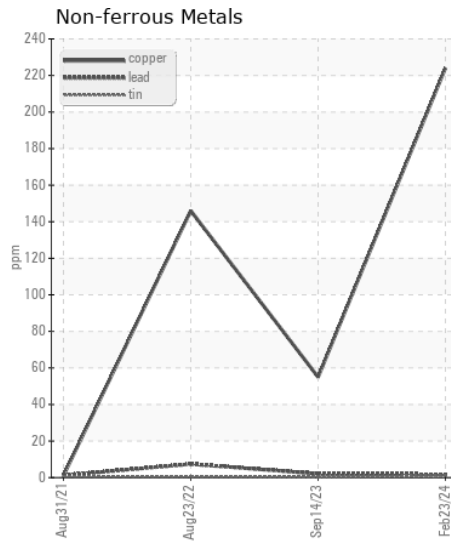
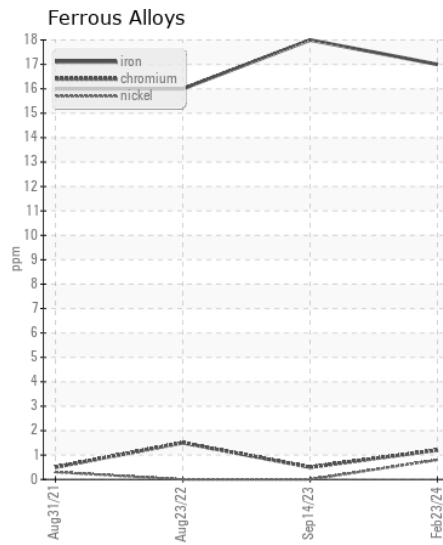
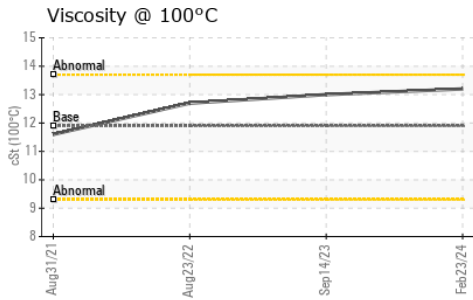
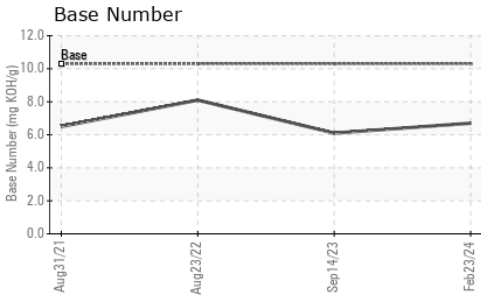
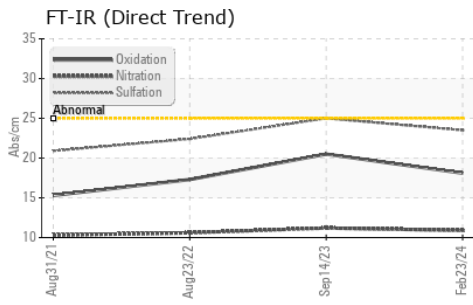
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	6	15
Potassium	ppm	ASTM D5185m	>20	7	3	7
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	0.6	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.9	11.2	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	25.0	22.4
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

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		4	2	8
Boron	ppm	ASTM D5185m		249	85	135
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		86	70	57
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m		481	502	603
Calcium	ppm	ASTM D5185m	2900	1428	1365	1404
Phosphorus	ppm	ASTM D5185m	1100	1036	820	732
Zinc	ppm	ASTM D5185m	1200	1190	1106	934
Sulfur	ppm	ASTM D5185m	4000	3479	2730	3142
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	20.5	17.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	6.7	6.1	8.1
Visc @ 100°C	cSt	ASTM D445	11.9	13.2	13.0	12.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RY0123447
Lab Number : 06187327
Unique Number : 11044079
Test Package : FLEET

Received : 22 May 2024
Tested : 23 May 2024
Diagnosed : 24 May 2024 - Wes Davis

Ryder Transportation Services
 240 NE 71 ST
 MIAMI, FL
 US 33138
 Contact: ANTHONY INGRAM
 anthonyingram@creamoland.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)

T:
F: