TRC
T R A A P
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

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

Machine Id
KENWORTH JJ991410
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SAE 10W30 (43 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**TR02634515**	---	---
Sample Date		Client Info		**05 May 2024**	---	---
Machine Age	hrs	Client Info		**10270**	---	---
Oil Age	hrs	Client Info		**465**	---	---
Filter Age	hrs	Client Info		**465**	---	---
Oil Changed		Client Info		**Changed**	---	---
Filter Changed		Client Info		**Changed**	---	---
Sample Status				**NORMAL**	---	---

WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185(m)	>100	**8**	---	---
Chromium	ppm	ASTM D5185(m)	>20	**0**	---	---
Nickel	ppm	ASTM D5185(m)	>4	**0**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)	>3	**0**	---	---
Aluminum	ppm	ASTM D5185(m)	>20	**3**	---	---
Lead	ppm	ASTM D5185(m)	>40	**0**	---	---
Copper	ppm	ASTM D5185(m)	>330	**<1**	---	---
Tin	ppm	ASTM D5185(m)	>15	**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---

CONTAMINATION

There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185(m)	>25	**4**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**4**	---	---
Fuel		WC Method	>5	**<1.0**	---	---
Water		WC Method	>0.2	**NEG**	---	---
Glycol		WC Method		**NEG**	---	---
Soot %	%	ASTM D7844*	>3	**0.2**	---	---
Nitration	Abs/cm	ASTM D7624*	>20	**9.1**	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.8**	---	---
Emulsified Water	scalar	Visual*	>0.2	**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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185(m)		**2**	---	---
Boron	ppm	ASTM D5185(m)		**56**	---	---
Barium	ppm	ASTM D5185(m)		**0**	---	---
Molybdenum	ppm	ASTM D5185(m)		**3**	---	---
Manganese	ppm	ASTM D5185(m)		**<1**	---	---
Magnesium	ppm	ASTM D5185(m)		**714**	---	---
Calcium	ppm	ASTM D5185(m)		**1341**	---	---
Phosphorus	ppm	ASTM D5185(m)	1260	**671**	---	---
Zinc	ppm	ASTM D5185(m)	1400	**775**	---	---
Sulfur	ppm	ASTM D5185(m)		**2442**	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	**14.1**	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	10.1	**7.85**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.1	**11.7**	---	---
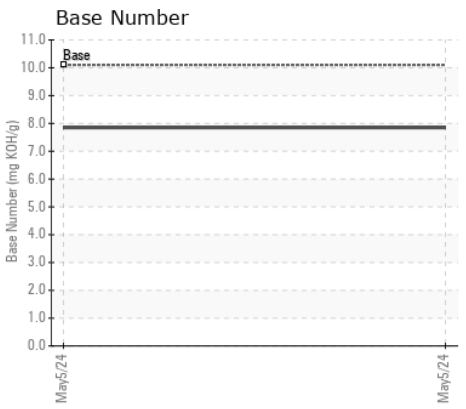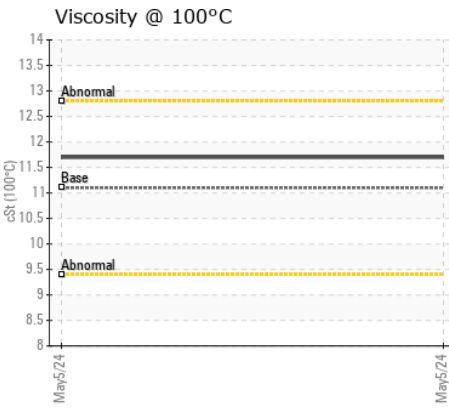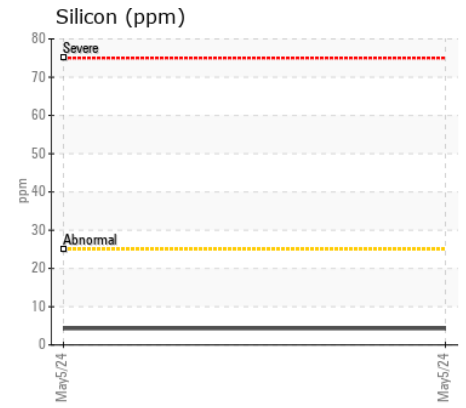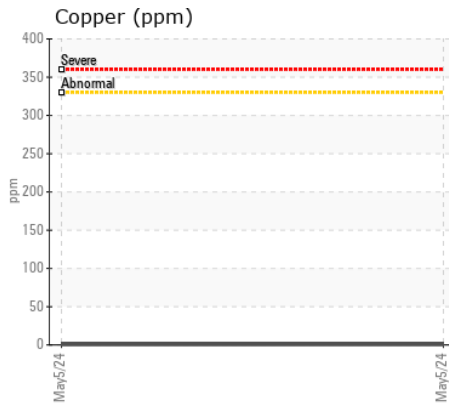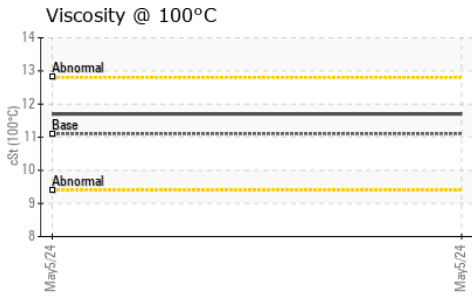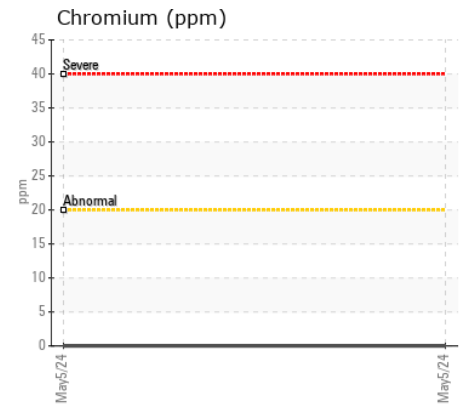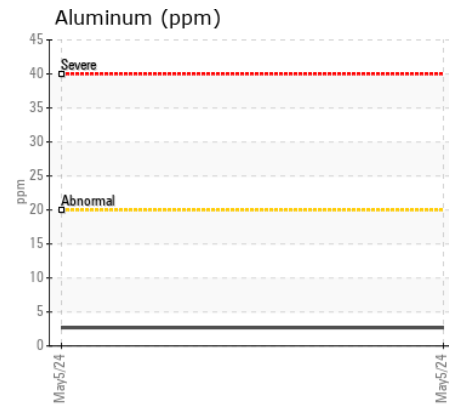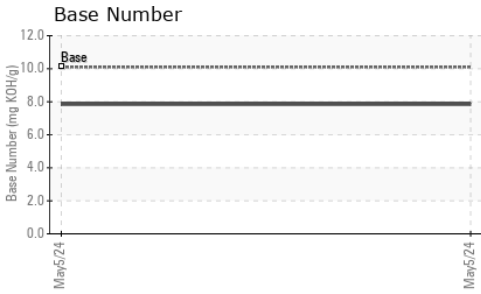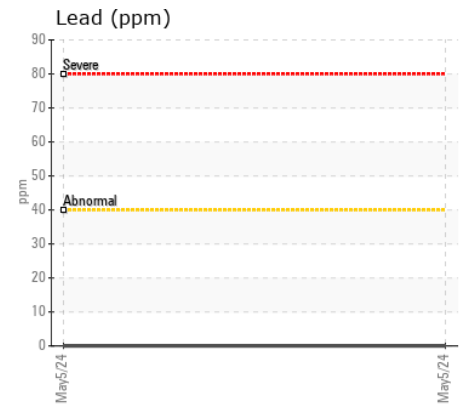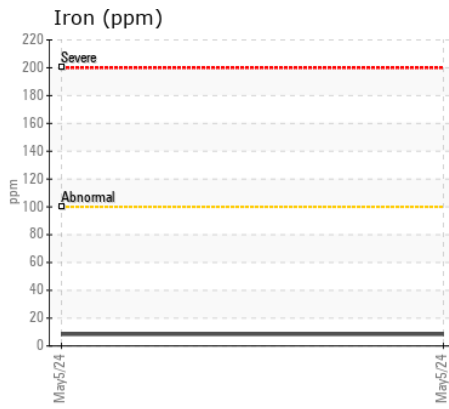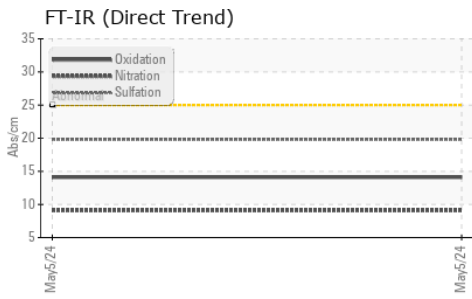
FT-IR (Direct Trend)

Base Number

Viscosity @ 100°C

Iron (ppm)

Aluminum (ppm)

Copper (ppm)

Viscosity @ 100°C

Lead (ppm)

Chromium (ppm)

Silicon (ppm)

Base Number

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