



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH UNIT #83 (S/N 1XKWD40X57J999002)

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 40 (42 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02634519	---	---
Sample Date		Client Info		02 May 2024	---	---
Machine Age	kms	Client Info		1282017	---	---
Oil Age	kms	Client Info		4200	---	---
Filter Age	kms	Client Info		4200	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	5	---	---
Chromium	ppm	ASTM D5185(m)	>5	0	---	---
Nickel	ppm	ASTM D5185(m)	>4	0	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	---	---
Lead	ppm	ASTM D5185(m)	>150	0	---	---
Copper	ppm	ASTM D5185(m)	>90	<1	---	---
Tin	ppm	ASTM D5185(m)	>5	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

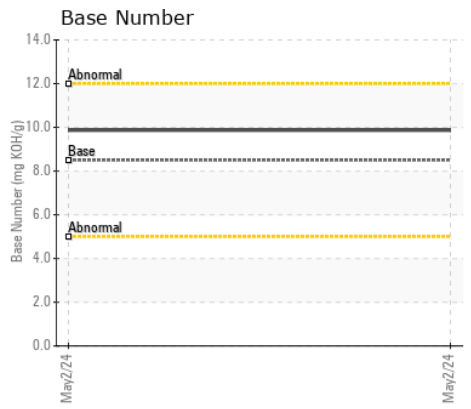
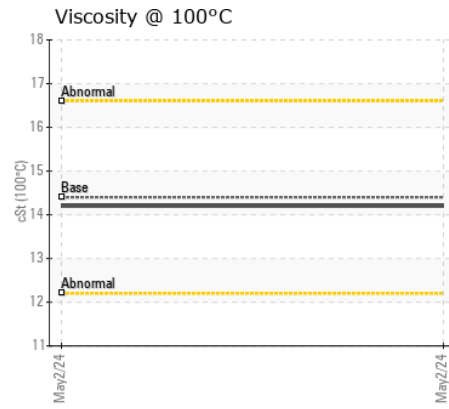
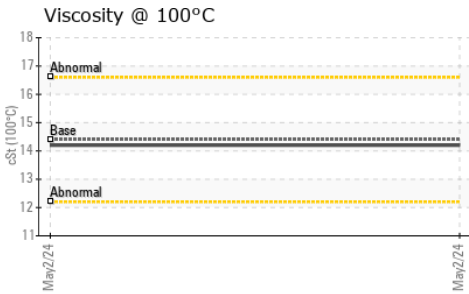
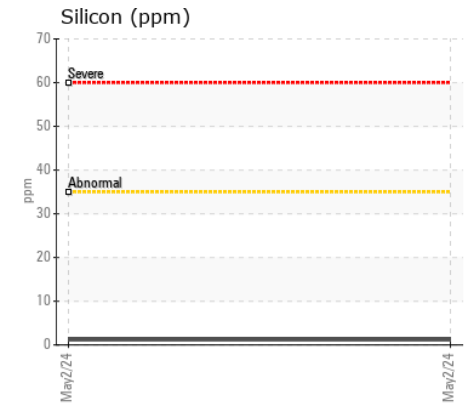
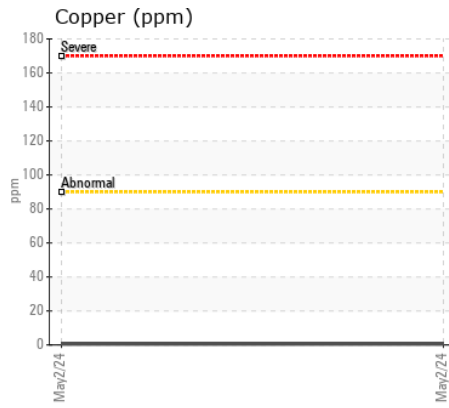
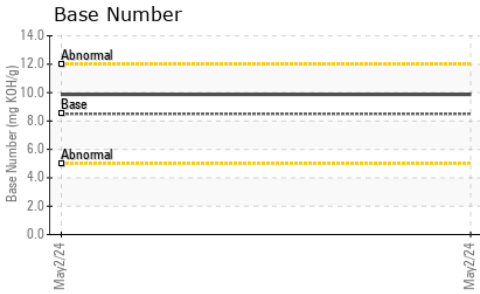
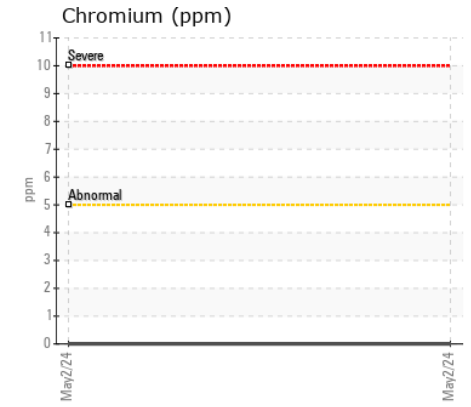
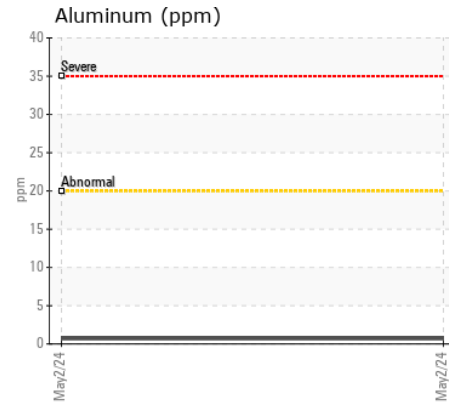
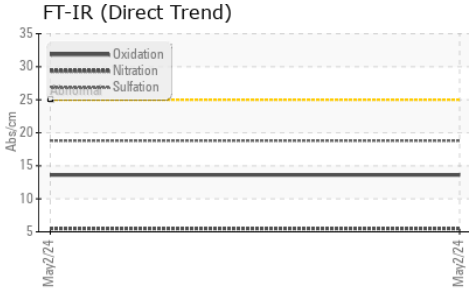
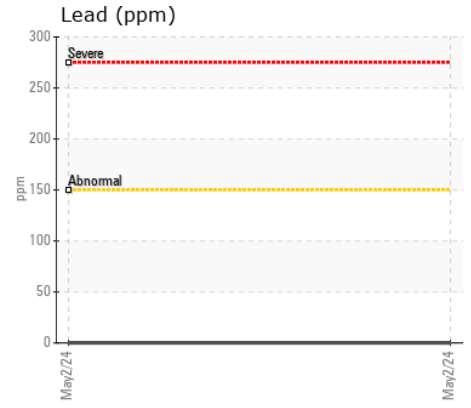
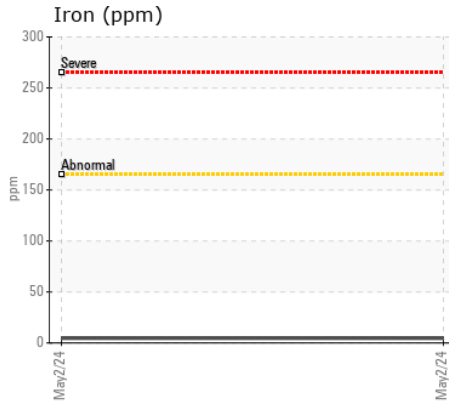
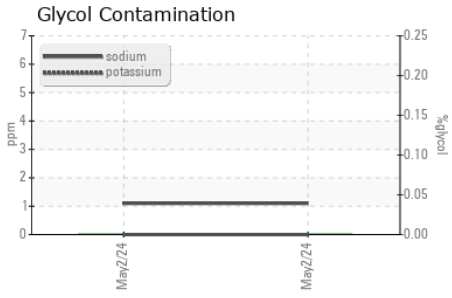
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	1	---	---
Potassium	ppm	ASTM D5185(m)	>20	0	---	---
Fuel		WC Method	>3.0	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*	>7.5	0.2	---	---
Nitration	Abs/cm	ASTM D7624*	>20	5.5	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8	---	---
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.

Sodium	ppm	ASTM D5185(m)	>216	1	---	---
Boron	ppm	ASTM D5185(m)	250	2	---	---
Barium	ppm	ASTM D5185(m)	10	0	---	---
Molybdenum	ppm	ASTM D5185(m)	100	58	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)	450	957	---	---
Calcium	ppm	ASTM D5185(m)	3000	1070	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	985	---	---
Zinc	ppm	ASTM D5185(m)	1350	1188	---	---
Sulfur	ppm	ASTM D5185(m)	4250	2651	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.6	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	9.87	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.2	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02634519 **Received** : 10 May 2024
Lab Number : 02634519 **Tested** : 10 May 2024
Unique Number : 5775672 **Diagnosed** : 13 May 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: Glycol)

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To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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)