



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH 2010 KENWORTH
 Component
Diesel Engine
 Fluid
TRC 0W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

Metal levels are typical for a components first oil change.

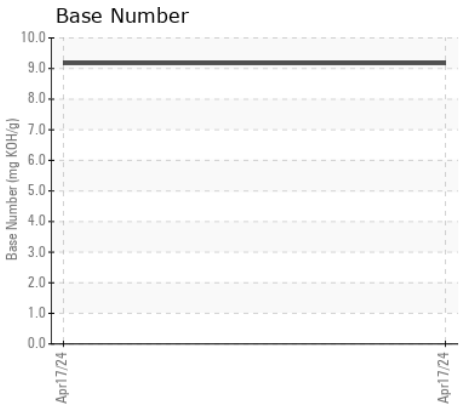
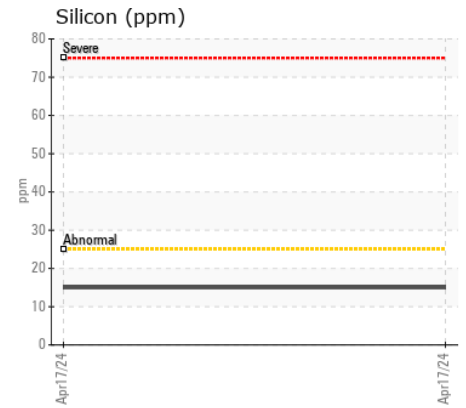
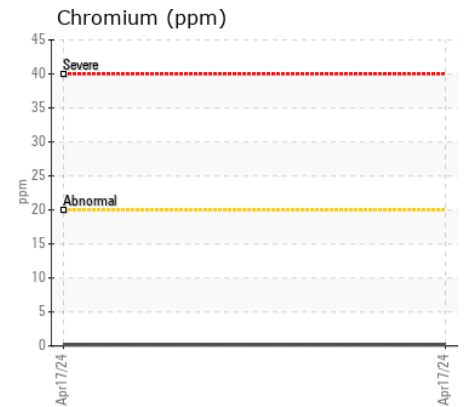
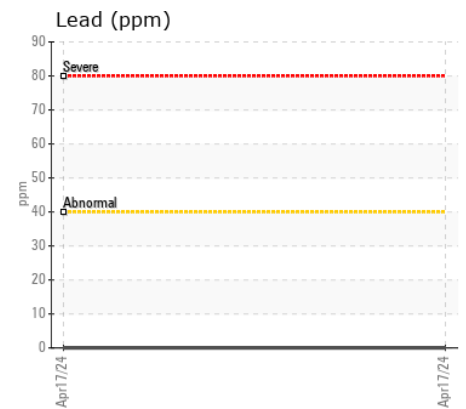
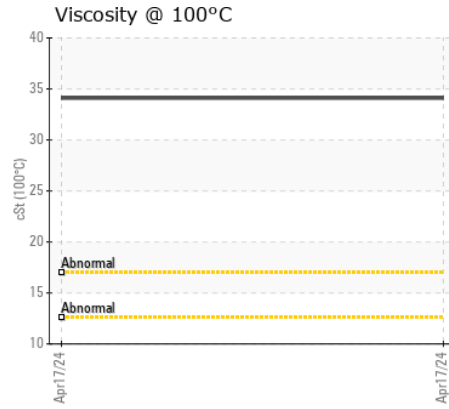
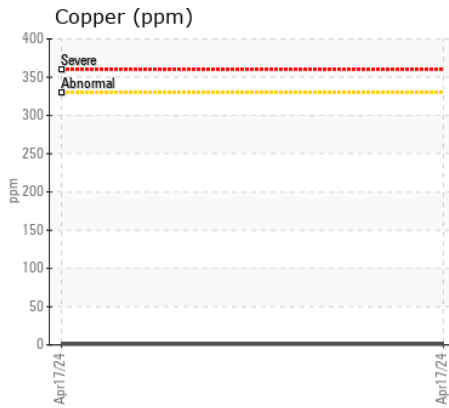
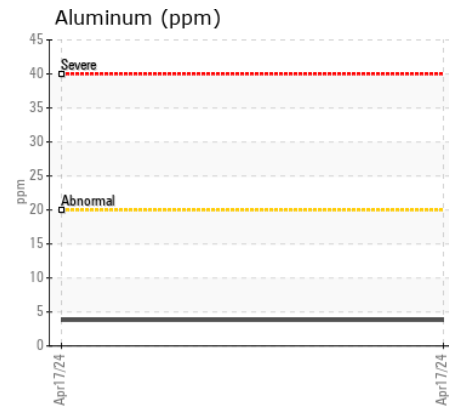
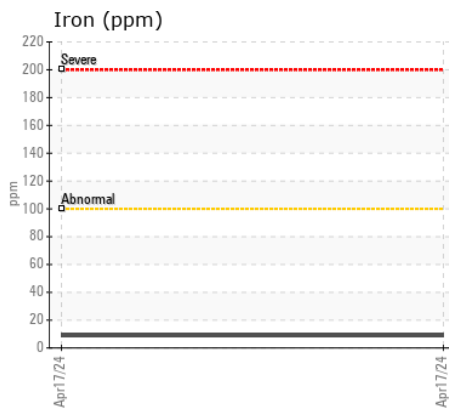
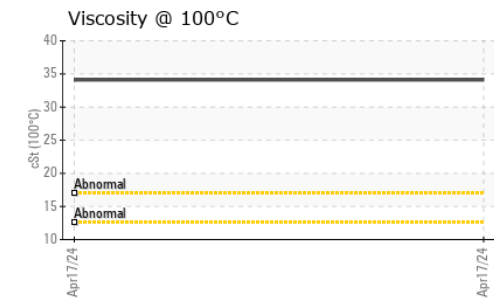
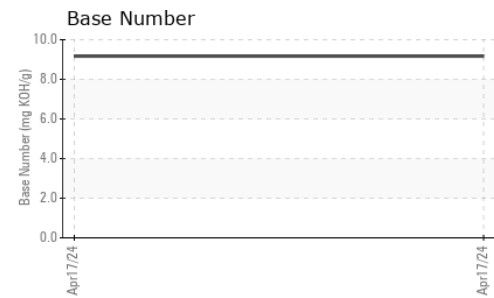
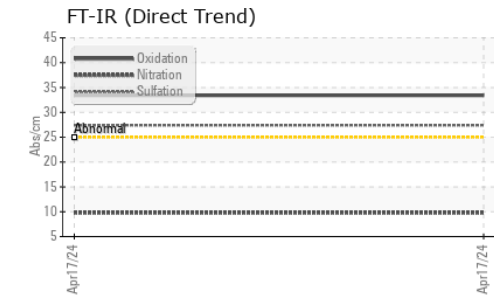
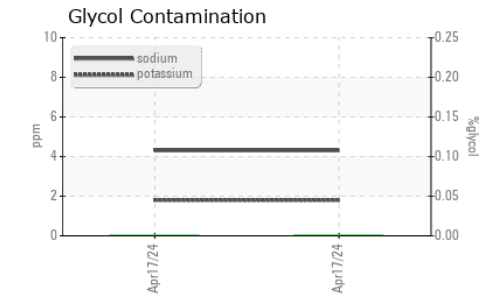
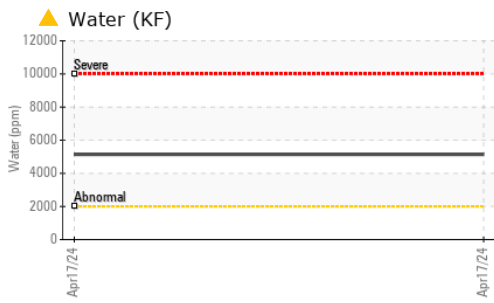
CONTAMINATION

There is a moderate concentration of water present in the oil. Test for glycol is negative.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02631270	---	---
Sample Date		Client Info		17 Apr 2024	---	---
Machine Age	kms	Client Info		6500	---	---
Oil Age	kms	Client Info		6500	---	---
Filter Age	kms	Client Info		6500	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185(m)	>100	9	---	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---	---
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	4	---	---
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	---	---
Silicon	ppm	ASTM D5185(m)	>25	15	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Fuel		WC Method	>5	<1.0	---	---
Water	%	ASTM D6304*	>0.2	▲ 0.514	---	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 5141	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*	>3	0.3	---	---
Nitration	Abs/cm	ASTM D7624*	>20	9.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.4	---	---
Emulsified Water	scalar	Visual*	>0.2	▲ .5%	---	---
Sodium	ppm	ASTM D5185(m)		4	---	---
Boron	ppm	ASTM D5185(m)		119	---	---
Barium	ppm	ASTM D5185(m)		1	---	---
Molybdenum	ppm	ASTM D5185(m)		208	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		45	---	---
Calcium	ppm	ASTM D5185(m)		2081	---	---
Phosphorus	ppm	ASTM D5185(m)		955	---	---
Zinc	ppm	ASTM D5185(m)		1096	---	---
Sulfur	ppm	ASTM D5185(m)		3388	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	33.4	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		9.17	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		34.1	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02631270 **Received** : 25 Apr 2024
Lab Number : 02631270 **Tested** : 25 Apr 2024
Unique Number : 5772423 **Diagnosed** : 26 Apr 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: Glycol, KF)

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 46 EDMONT DR
 WINNIPEG, MB
 CA R2J 3H9
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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)