



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH 600
 Component
Diesel Engine
 Fluid
TRC MOLY XL PROSPEC III 15W40 (11 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06210384	TR05946710	TR05778382
Sample Date		Client Info		02 May 2024	03 Sep 2023	20 Feb 2023
Machine Age	mls	Client Info		48242	0	16806
Oil Age	mls	Client Info		48242	18196	0
Filter Age	mls	Client Info		48242	18196	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	13	16
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	2
Lead	ppm	ASTM D5185m	>40	<1	5	<1
Copper	ppm	ASTM D5185m	>330	258	▲ 430	144
Tin	ppm	ASTM D5185m	>15	1	2	1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

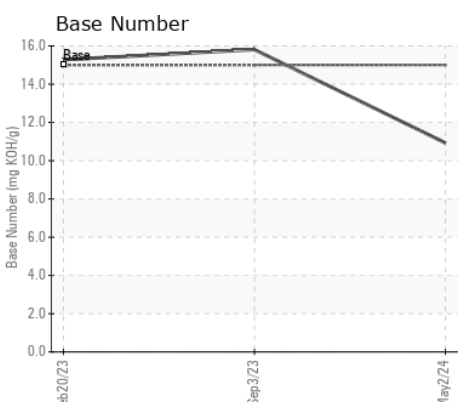
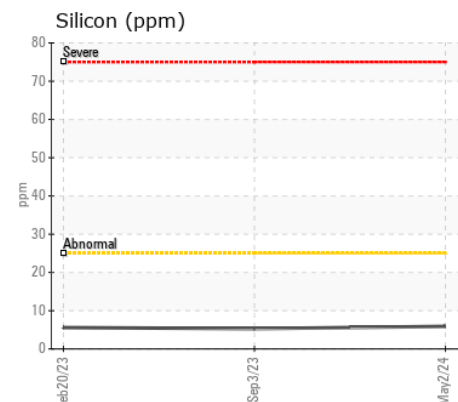
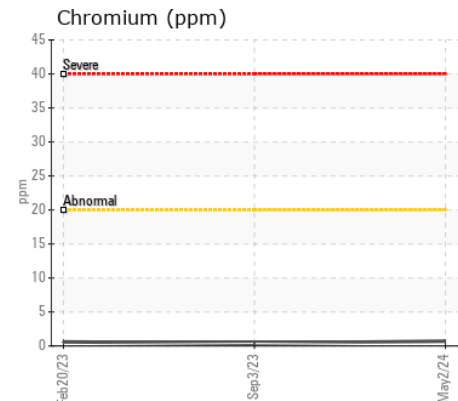
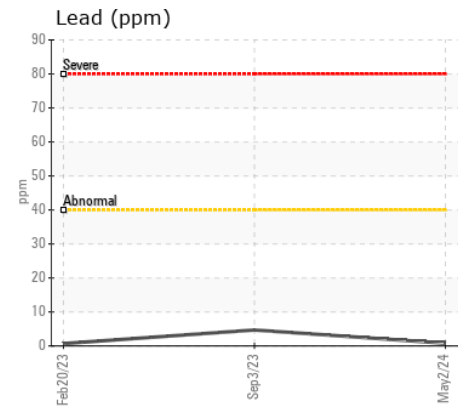
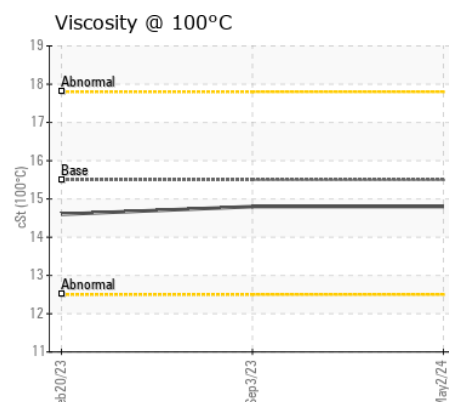
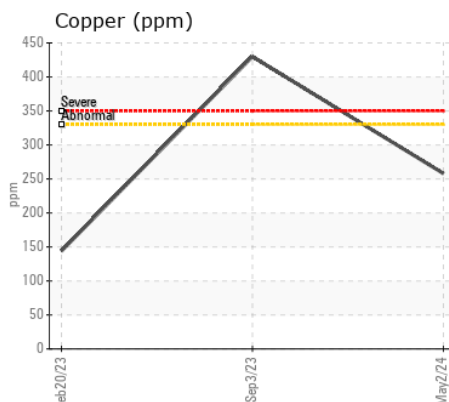
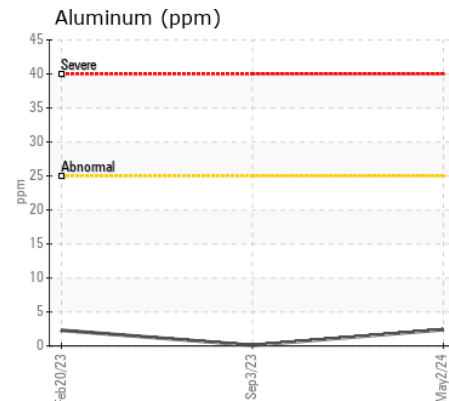
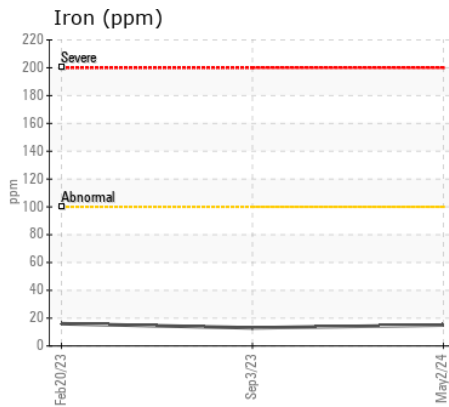
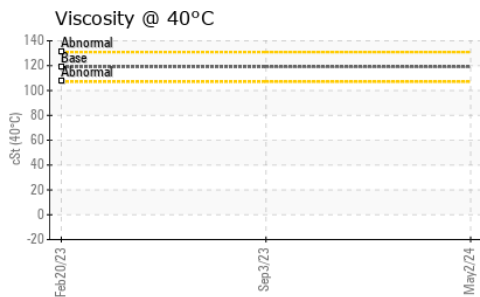
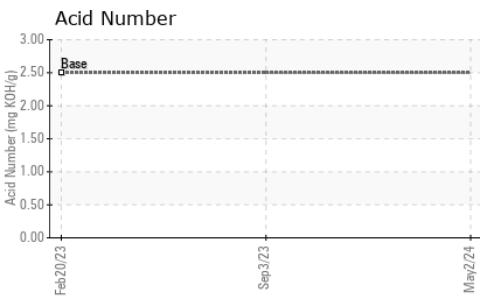
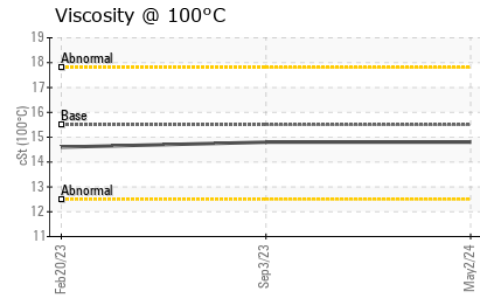
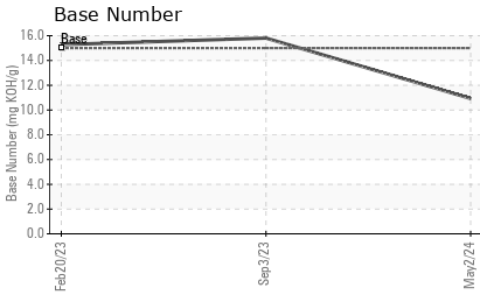
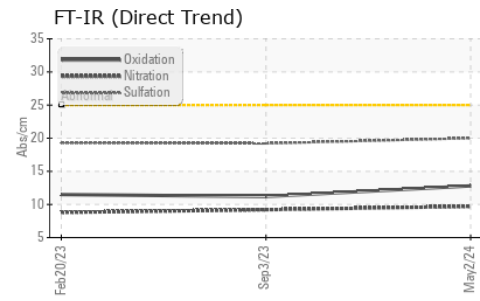
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	5	6
Potassium	ppm	ASTM D5185m	>20	3	2	4
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	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.7	9.2	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	19.2	19.3
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		2	<1	2
Boron	ppm	ASTM D5185m		6	<1	9
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		6	3	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		25	22	21
Calcium	ppm	ASTM D5185m	4500	4728	4507	4398
Phosphorus	ppm	ASTM D5185m		906	852	890
Zinc	ppm	ASTM D5185m	1400	1107	1022	1043
Sulfur	ppm	ASTM D5185m		4319	4647	4972
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	11.2	11.5
Base Number (BN)	mg KOH/g	ASTM D2896	15	10.93	15.81	15.28
Visc @ 100°C	cSt	ASTM D445	15.5	14.8	14.8	14.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06210384 **Received** : 14 Jun 2024
Lab Number : 06210384 **Tested** : 18 Jun 2024
Unique Number : 11083248 **Diagnosed** : 18 Jun 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: KV40, TAN Man)

CLEAN CAR TRANSPORT LLC
 PO BOX 307
 OWENSVILLE, MO
 US 65066
 Contact: ELMER BASSETT

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)

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