



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
KENWORTH 43
Component
Diesel Engine
Fluid
SHELL ROTELLA T4 15W40 (12 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0027561	LEC0027563	LECP179743
Sample Date		Client Info		31 Jul 2023	12 Jan 2023	05 Nov 2022
Machine Age	mls	Client Info		836527	802184	783668
Oil Age	mls	Client Info		17104	18516	19701
Filter Age	mls	Client Info		17104	18516	19701
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	25	30	28
Chromium	ppm	ASTM D5185m	>20	1	3	3
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	6	8
Lead	ppm	ASTM D5185m	>40	2	3	2
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	<1	2	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

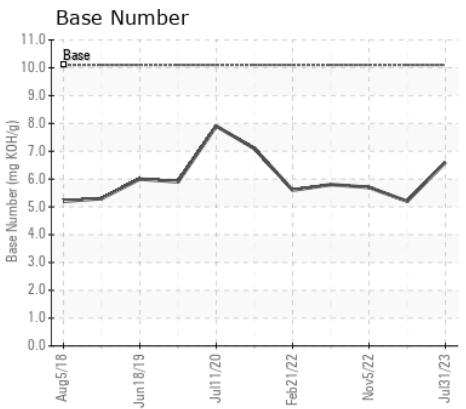
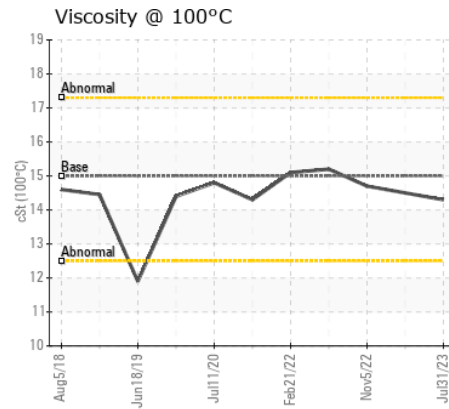
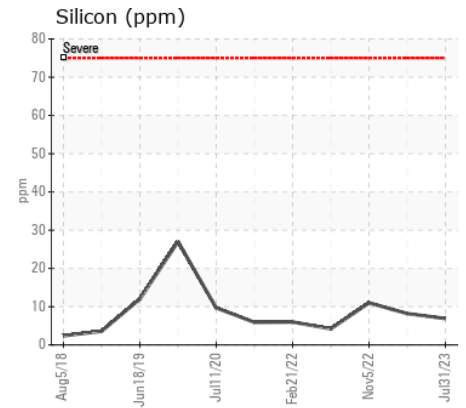
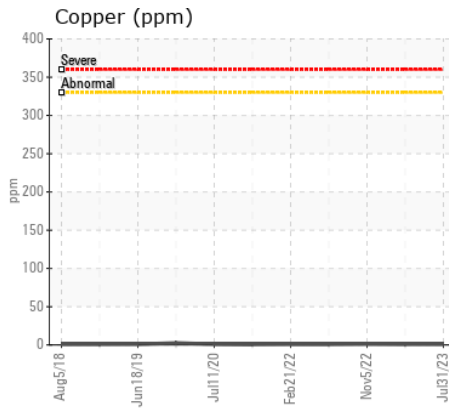
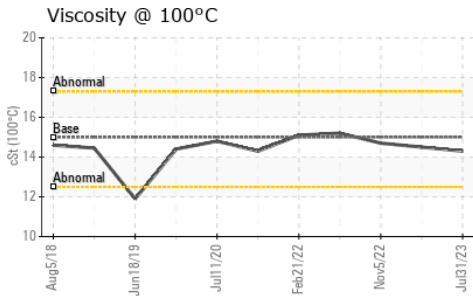
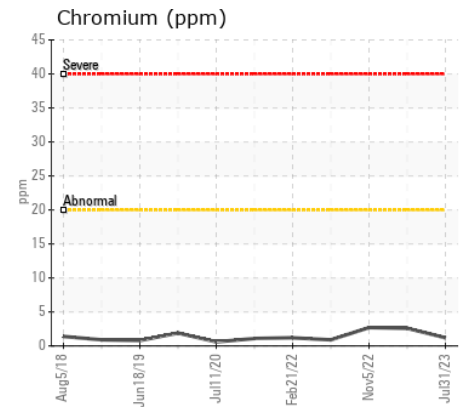
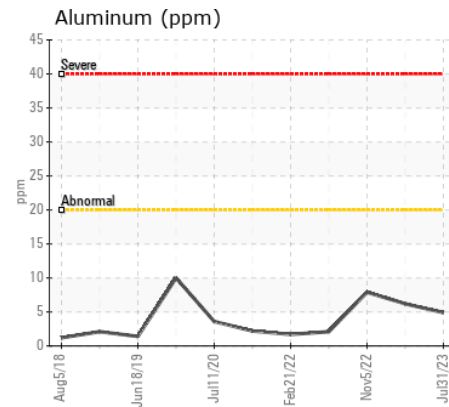
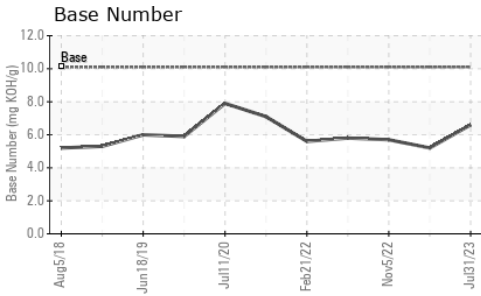
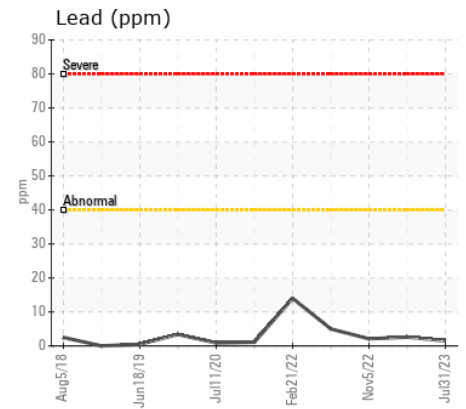
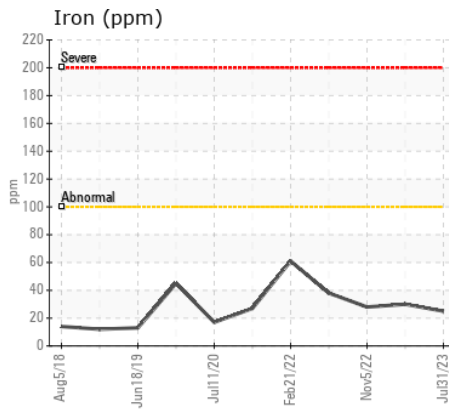
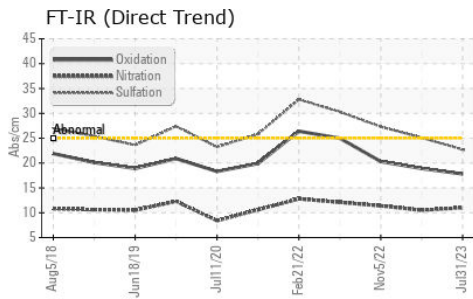
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	7	8	11
Potassium	ppm	ASTM D5185m	>20	13	20	24
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	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	11.0	10.5	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	25.1	27.3
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		5	2	5
Boron	ppm	ASTM D5185m		23	76	66
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		45	1	4
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		492	22	37
Calcium	ppm	ASTM D5185m		1692	2393	2225
Phosphorus	ppm	ASTM D5185m		1016	1003	963
Zinc	ppm	ASTM D5185m		1270	1339	1252
Sulfur	ppm	ASTM D5185m		3480	4148	3868
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	18.9	20.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	6.6	5.2	5.7
Visc @ 100°C	cSt	ASTM D445	15	14.3	14.5	14.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0027561 **Received** : 04 Aug 2023
Lab Number : 05915893 **Tested** : 04 Aug 2023
Unique Number : 10587807 **Diagnosed** : 04 Aug 2023 - Wes Davis
Test Package : MOBCE (Additional Tests: TBN)

RICHARD PETTY TRUCKING
 1700 26TH AVE
 PARKERSBURG, WV
 US 26101
 Contact: RICK PETTY
 tamipetty48@yahoo.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)

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