

Machine Id
KENWORTH TRK 68
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (11 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0111255	PCA0087605	PCA0087669
Sample Date		Client Info		03 Jul 2024	04 Nov 2023	11 Aug 2023
Machine Age	mls	Client Info		1322324	1264456	0
Oil Age	mls	Client Info		20000	20000	20000
Filter Age	mls	Client Info		10000	10000	20000
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	>165	8	3	5
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	1
Lead	ppm	ASTM D5185m	>150	2	0	2
Copper	ppm	ASTM D5185m	>90	<1	0	<1
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

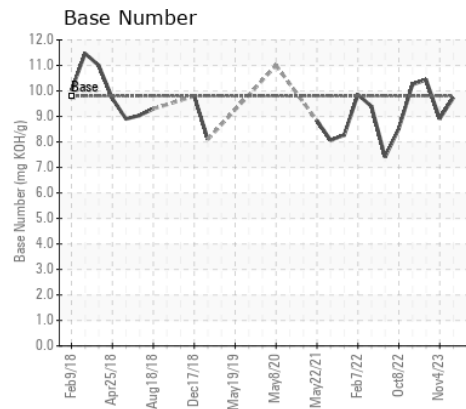
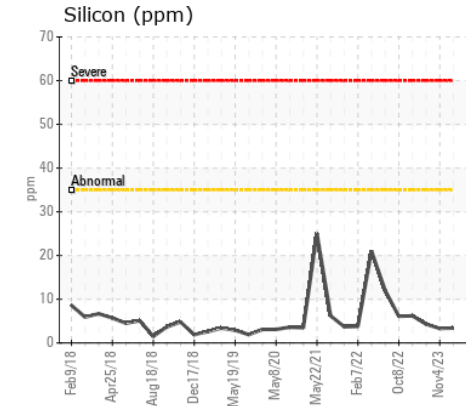
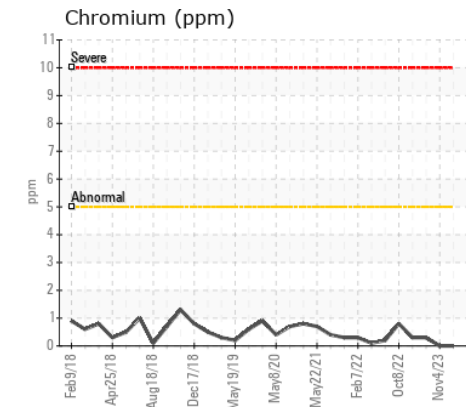
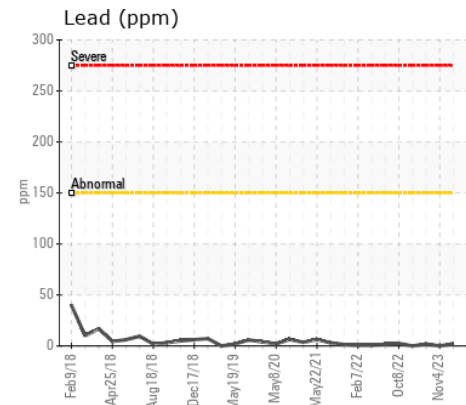
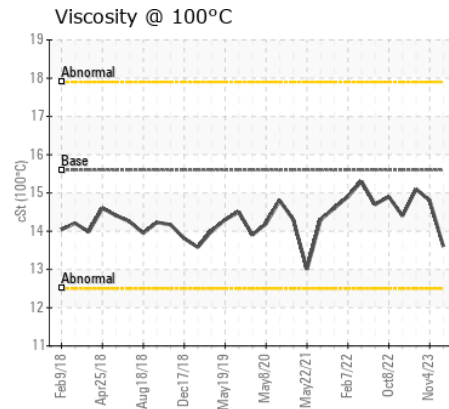
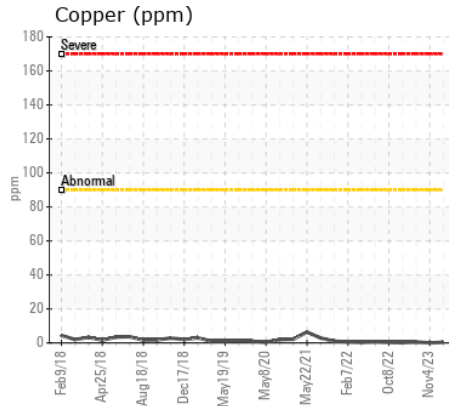
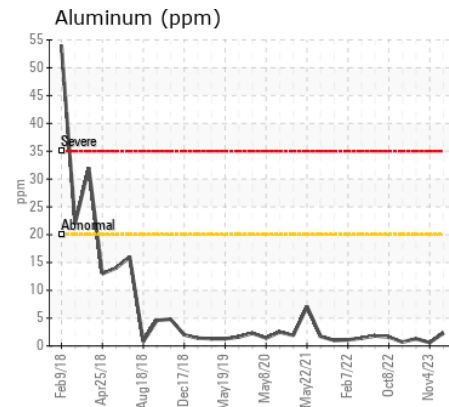
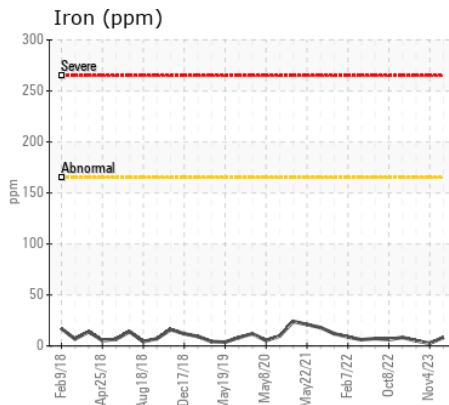
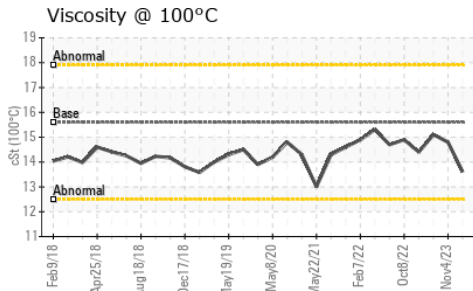
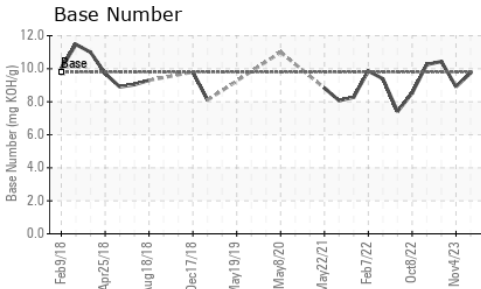
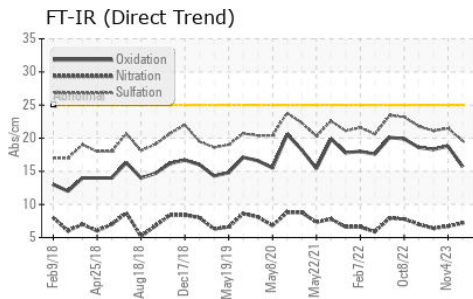
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	3	3	4
Potassium	ppm	ASTM D5185m	>20	2	0	3
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.7	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	21.5	21.1
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	4
Boron	ppm	ASTM D5185m		4	3	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		67	93	105
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		1012	834	953
Calcium	ppm	ASTM D5185m		1126	874	1061
Phosphorus	ppm	ASTM D5185m		1145	888	999
Zinc	ppm	ASTM D5185m		1413	1042	1219
Sulfur	ppm	ASTM D5185m		3993	2552	3654
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	18.8	18.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.74	8.91	10.44
Visc @ 100°C	cSt	ASTM D445	15.6	13.6	14.8	15.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0111255
Lab Number : 06235149
Unique Number : 11123983
Test Package : MOB 2

Received : 12 Jul 2024
Tested : 15 Jul 2024
Diagnosed : 15 Jul 2024 - Wes Davis

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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