

Machine Id  
**KENWORTH TRK 73**  
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		<b>PCA0111256</b>	PCA0087655	PCA0087583
Sample Date		Client Info		<b>28 Jun 2024</b>	27 Oct 2023	26 Aug 2023
Machine Age	mls	Client Info		<b>708222</b>	0	646581
Oil Age	mls	Client Info		<b>20000</b>	20000	20000
Filter Age	mls	Client Info		<b>10000</b>	10000	10000
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ATTENTION	ATTENTION

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>24</b>	30	38
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	<1	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	1	1
Lead	ppm	ASTM D5185m	>150	<b>0</b>	<1	2
Copper	ppm	ASTM D5185m	>90	<b>0</b>	0	<1
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

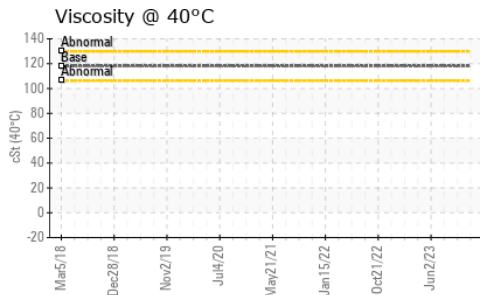
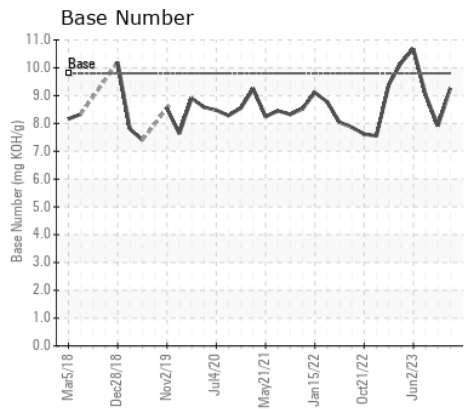
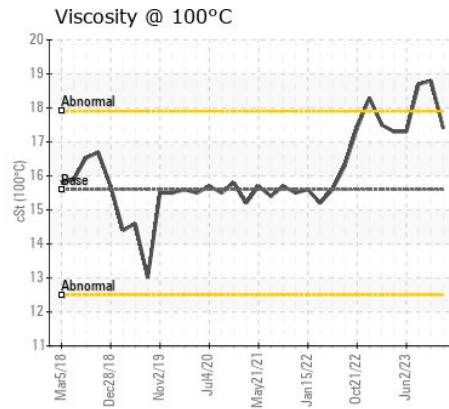
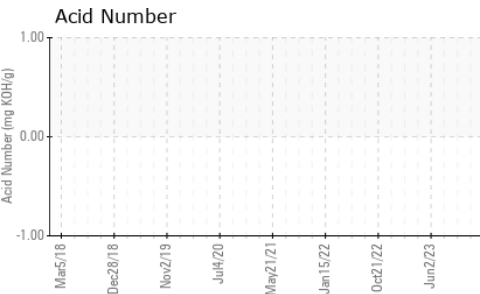
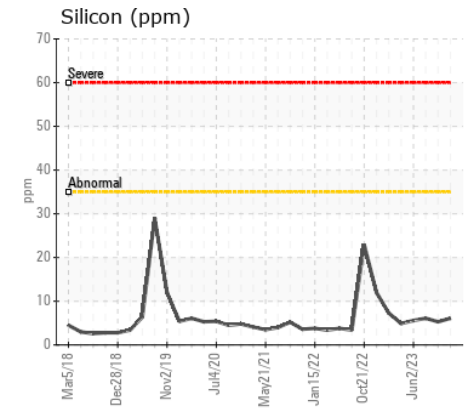
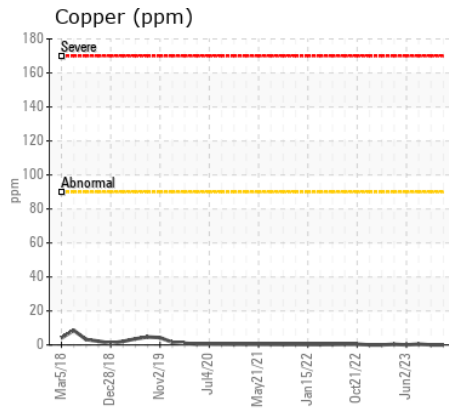
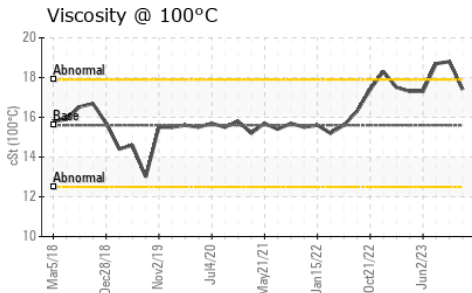
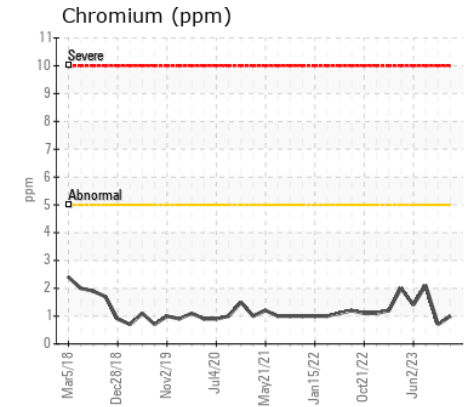
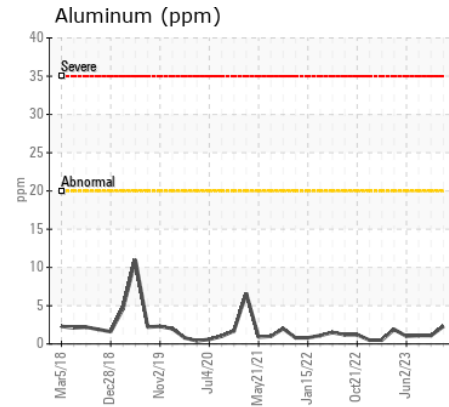
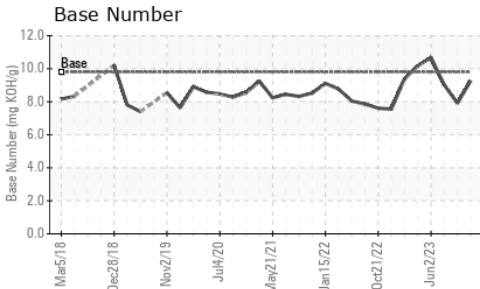
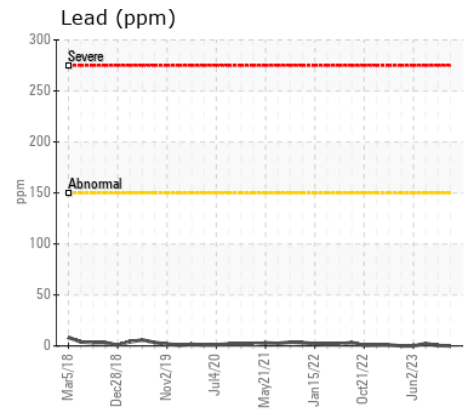
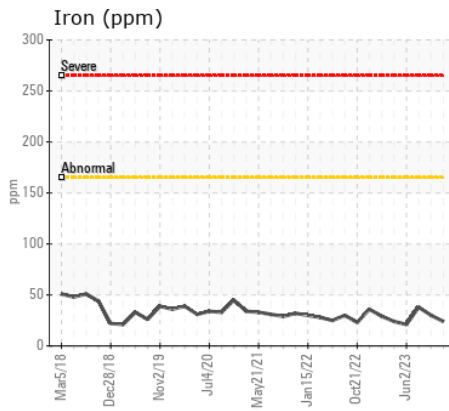
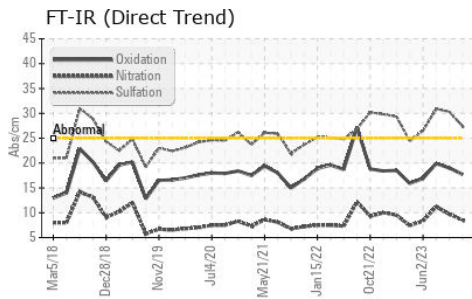
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>6</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	6
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	<b>4.1</b>	5.1	5.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.5</b>	9.7	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>27.4</b>	30.3	30.9
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>6</b>	5	7
Boron	ppm	ASTM D5185m		<b>4</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>105</b>	113	107
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>933</b>	949	1046
Calcium	ppm	ASTM D5185m		<b>1012</b>	962	1105
Phosphorus	ppm	ASTM D5185m		<b>995</b>	961	1020
Zinc	ppm	ASTM D5185m		<b>1193</b>	1221	1317
Sulfur	ppm	ASTM D5185m		<b>3375</b>	2856	3661
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.7</b>	19.0	19.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>9.26</b>	7.91	9.02
Visc @ 100°C	cSt	ASTM D445	15.6	<b>17.4</b>	18.8	18.7



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111256  
**Lab Number** : 06226449  
**Unique Number** : 11109942  
**Test Package** : MOB 2 ( Additional Tests: KV40, TAN Man )  
 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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