

Machine Id  
**KENWORTH 60**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (10 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0111253</b>	PCA0087581	PCA0087614
Sample Date		Client Info		<b>03 Jul 2024</b>	23 Sep 2023	18 May 2023
Machine Age	mls	Client Info		<b>1303216</b>	1262215	1235054
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>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>16</b>	21	39
Chromium	ppm	ASTM D5185m	>6	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	4	0
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	9
Copper	ppm	ASTM D5185m	>150	<b>5</b>	13	12
Tin	ppm	ASTM D5185m	>4	<b>1</b>	2	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

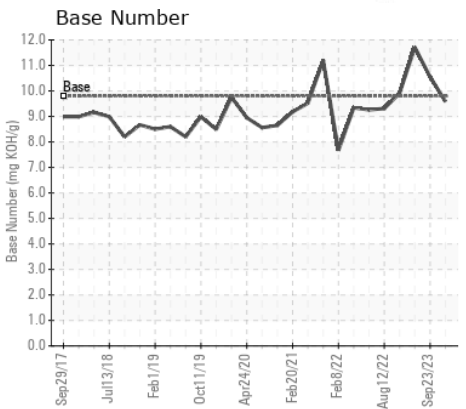
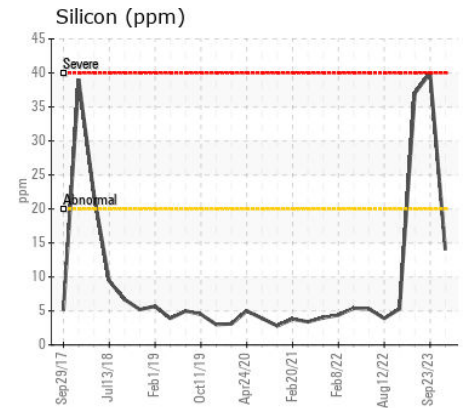
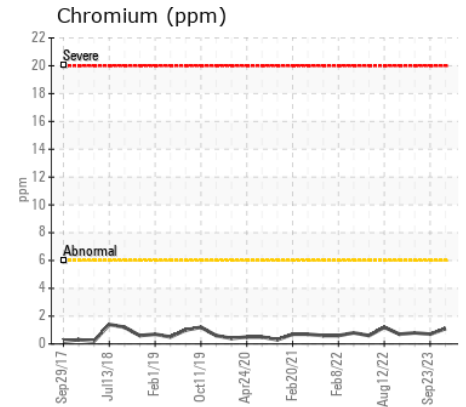
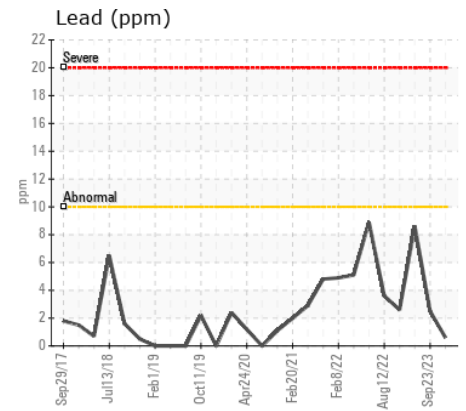
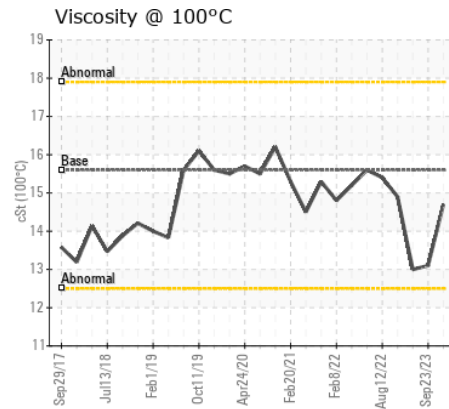
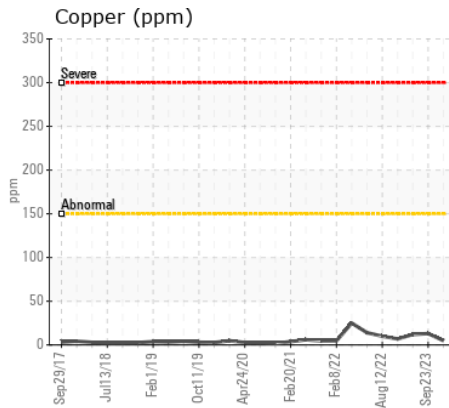
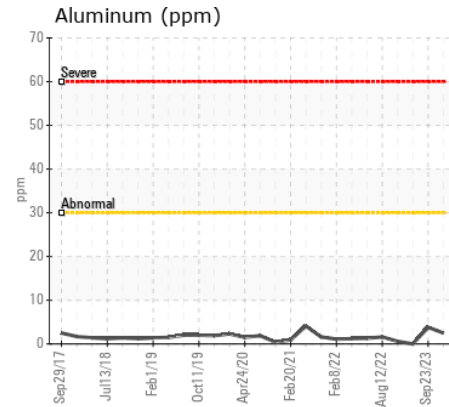
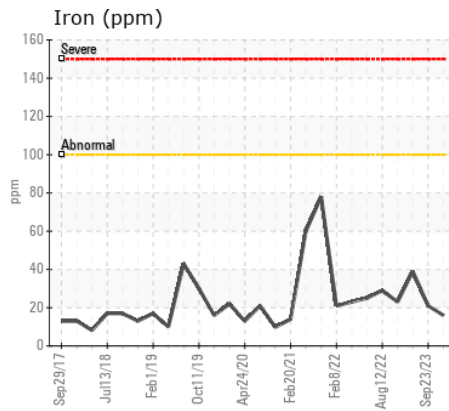
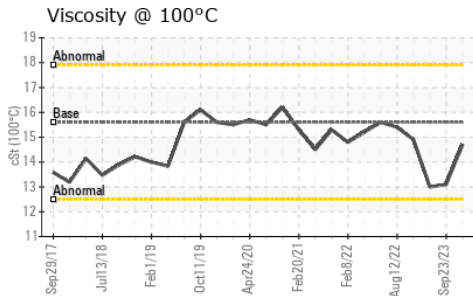
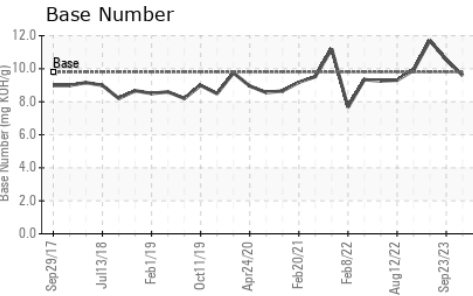
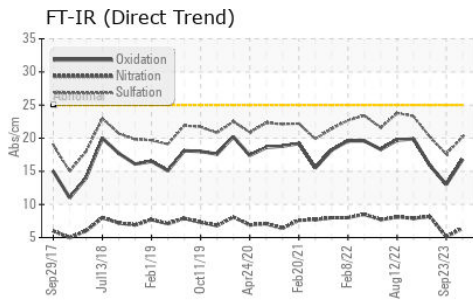
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>14</b>	▲ 40	▲ 37
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	▲ 74
Fuel		WC Method	>5	<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	>3	<b>0.3</b>	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.4</b>	5.1	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.2</b>	17.6	20.2
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>	42	▲ 455
Boron	ppm	ASTM D5185m		<b>4</b>	4	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>93</b>	70	143
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>959</b>	1016	913
Calcium	ppm	ASTM D5185m		<b>1035</b>	1100	1079
Phosphorus	ppm	ASTM D5185m		<b>1073</b>	1056	1012
Zinc	ppm	ASTM D5185m		<b>1309</b>	1285	1210
Sulfur	ppm	ASTM D5185m		<b>3807</b>	3421	3137
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.8</b>	13.0	15.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>9.59</b>	10.55	11.71
Visc @ 100°C	cSt	ASTM D445	15.6	<b>14.7</b>	13.1	13.0



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111253  
**Lab Number** : 06235150  
**Unique Number** : 11123984  
**Test Package** : MOB 2

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

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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)