

Machine Id
KENWORTH 97
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (24 LTR)

RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083436	PC0081928	PC0069223
Sample Date		Client Info		15 Apr 2024	10 Oct 2023	25 Jan 2023
Machine Age	kms	Client Info		749422	713387	672042
Oil Age	kms	Client Info		36035	29101	30185
Filter Age	kms	Client Info		36035	29101	30185
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	30	▲ 129	21
Chromium	ppm	ASTM D5185(m)	>5	<1	1	1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	4	12	3
Lead	ppm	ASTM D5185(m)	>25	<1	1	0
Copper	ppm	ASTM D5185(m)	>100	1	3	3
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	VLITE	---	---

CONTAMINATION

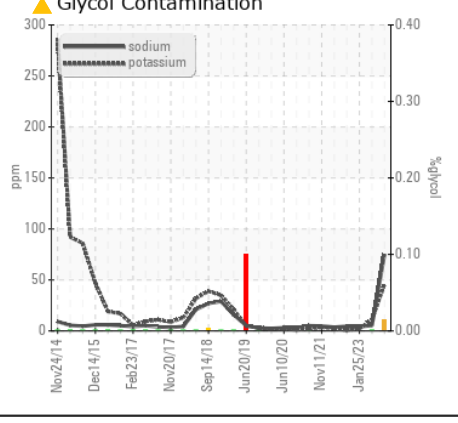
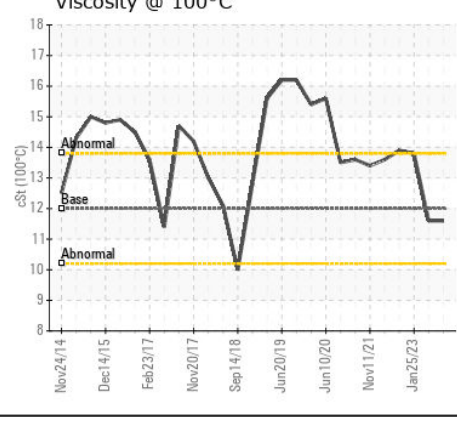
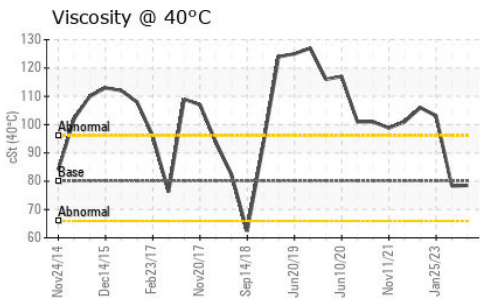
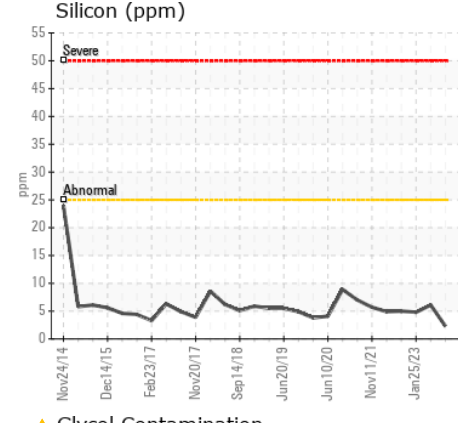
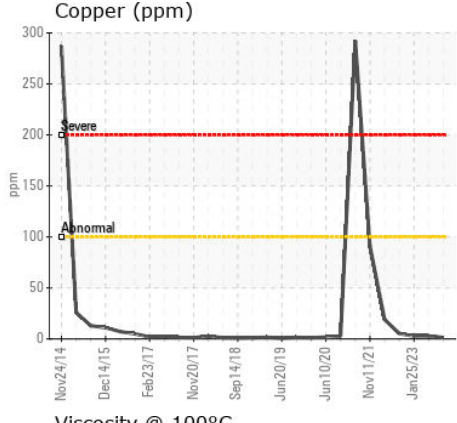
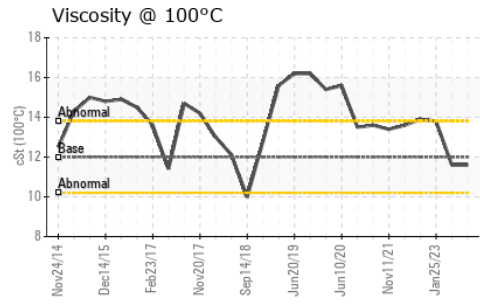
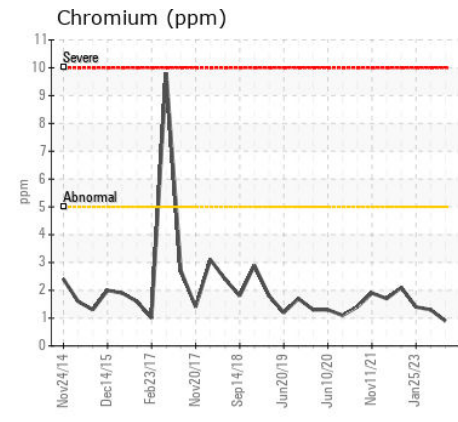
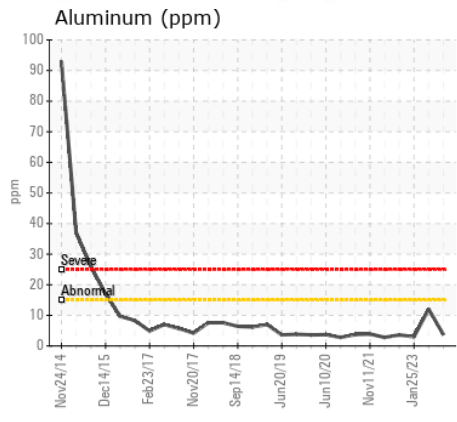
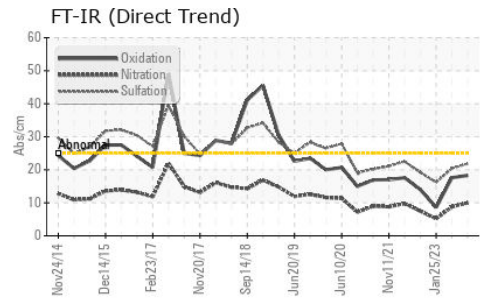
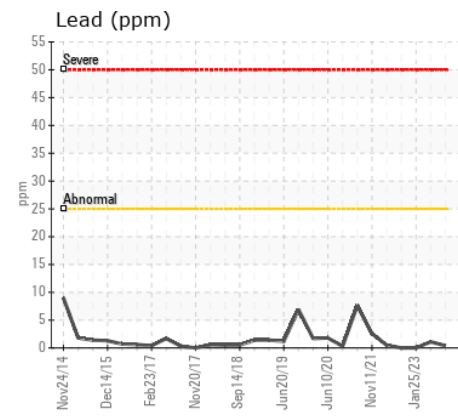
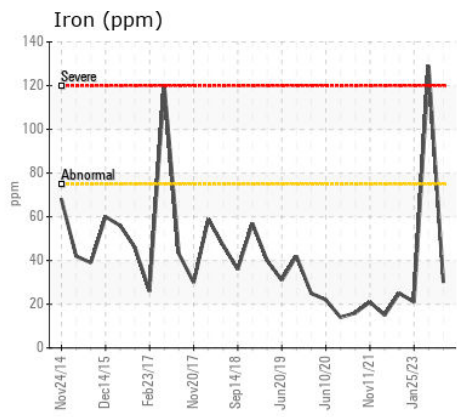
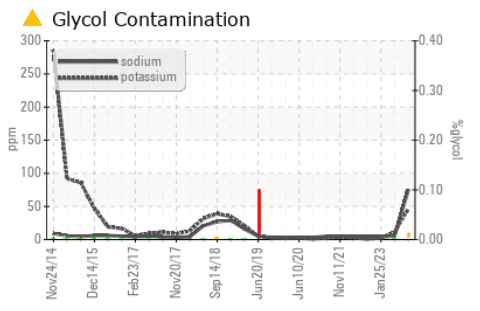
Test for glycol is positive. There is a light concentration of glycol present in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	6	5
Potassium	ppm	ASTM D5185(m)	>20	▲ 46	11	2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		▲ 0.014	0.0	NEG
Soot %	%	ASTM D7844*	>6	0.1	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	10.0	8.8	5.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.8	20.4	16.2
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		● 75	5	4
Boron	ppm	ASTM D5185(m)	2	4	3	4
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	75	63	63
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	1010	1002	999
Calcium	ppm	ASTM D5185(m)	1050	1100	1093	1176
Phosphorus	ppm	ASTM D5185(m)	995	1031	1020	1064
Zinc	ppm	ASTM D5185(m)	1180	1239	1260	1270
Sulfur	ppm	ASTM D5185(m)	2600	2517	2544	2584
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.3	17.6	8.6
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	78.5	78.3	103
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.6	11.6	13.8
Viscosity Index (VI)	Scale	ASTM D2270*	144	140	140	134



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083436 **Received** : 15 May 2024
Lab Number : **02635487** **Tested** : 15 May 2024
Unique Number : 5776640 **Diagnosed** : 15 May 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI, Visual)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.