



Machine Id
KENWORTH 2036

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a components first oil change.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0075846	---	---
Sample Date	Client Info		24 Nov 2023	---	---
Machine Age	kms	Client Info	25000	---	---
Oil Age	kms	Client Info	25000	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	63	---	---
Chromium	ppm	ASTM D5185(m) >20	2	---	---
Nickel	ppm	ASTM D5185(m) >4	<1	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m) >3	1	---	---
Aluminum	ppm	ASTM D5185(m) >20	26	---	---
Lead	ppm	ASTM D5185(m) >40	4	---	---
Copper	ppm	ASTM D5185(m) >330	24	---	---
Tin	ppm	ASTM D5185(m) >15	3	---	---
Antimony	ppm	ASTM D5185(m)	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 2	31	---	---
Barium	ppm	ASTM D5185(m) 0	5	---	---
Molybdenum	ppm	ASTM D5185(m) 50	10	---	---
Manganese	ppm	ASTM D5185(m) 0	5	---	---
Magnesium	ppm	ASTM D5185(m) 950	683	---	---
Calcium	ppm	ASTM D5185(m) 1050	1290	---	---
Phosphorus	ppm	ASTM D5185(m) 995	645	---	---
Zinc	ppm	ASTM D5185(m) 1180	763	---	---
Sulfur	ppm	ASTM D5185(m) 2600	2221	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

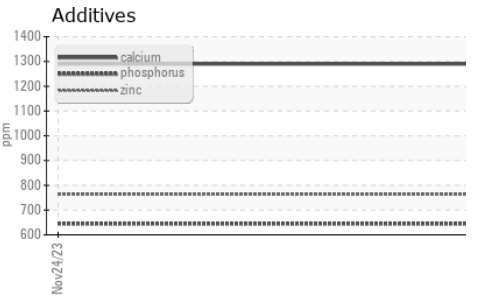
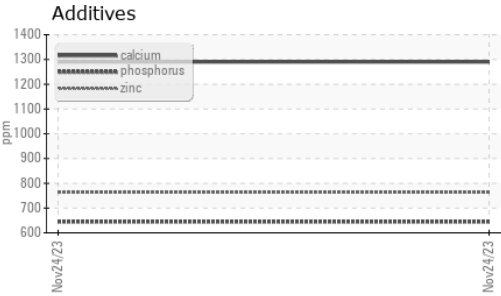
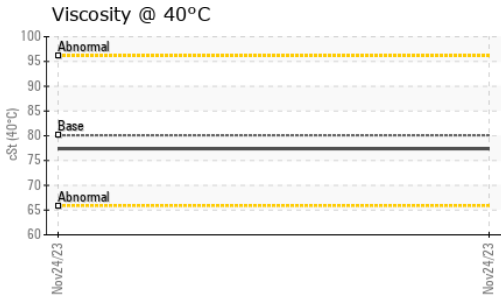
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	41	---	---
Sodium	ppm	ASTM D5185(m)	6	---	---
Potassium	ppm	ASTM D5185(m) >20	98	---	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0.2	---	---
Nitration	Abs/cm	ASTM D7624* >20	10.2	---	---
Sulfation	Abs./1mm	ASTM D7415* >30	21.6	---	---

OIL ANALYSIS REPORT

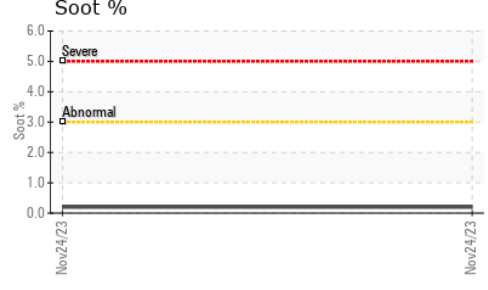
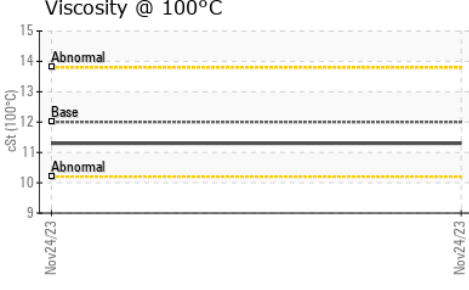
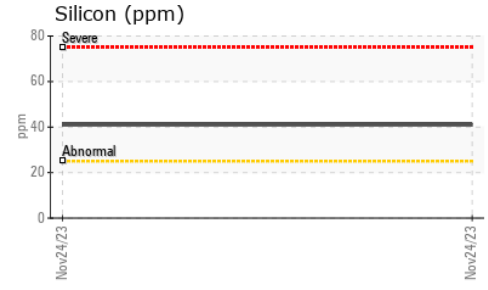
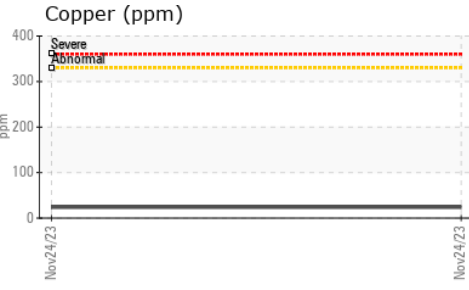
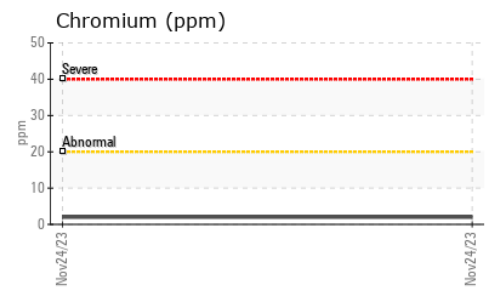
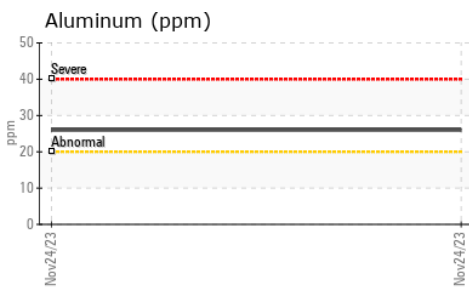
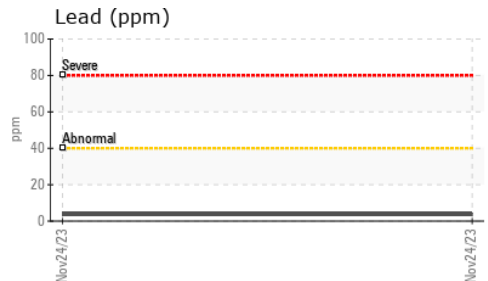
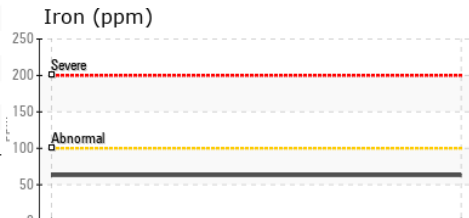


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	16.9	---	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	77.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	144	136	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0075846 **Received** : 28 Nov 2023
Lab Number : 02599255 **Diagnosed** : 28 Nov 2023
Unique Number : 5684335 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, VI)

B FREGEAU & FILS INC
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 ST ALEXANDRE, QC
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 Contact: Steve M.
 stevem@bfregeau.com

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.