



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 143
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (22 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083435	PC0075195	PC0059765
Sample Date		Client Info		13 Apr 2024	22 Jul 2023	06 Sep 2022
Machine Age	kms	Client Info		166265	129793	100376
Oil Age	kms	Client Info		36472	29417	28766
Filter Age	kms	Client Info		36472	29417	28766
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 D5185(m)	>110	66	61	53
Chromium	ppm	ASTM D5185(m)	>4	3	4	4
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	9	14	34
Lead	ppm	ASTM D5185(m)	>45	0	<1	1
Copper	ppm	ASTM D5185(m)	>85	3	5	13
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	VLITE	---	---

CONTAMINATION

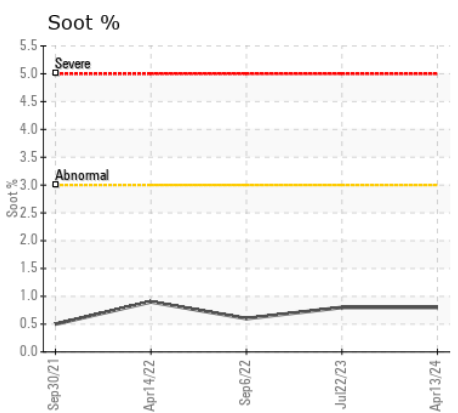
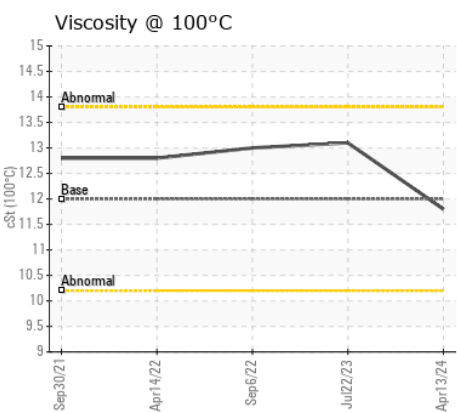
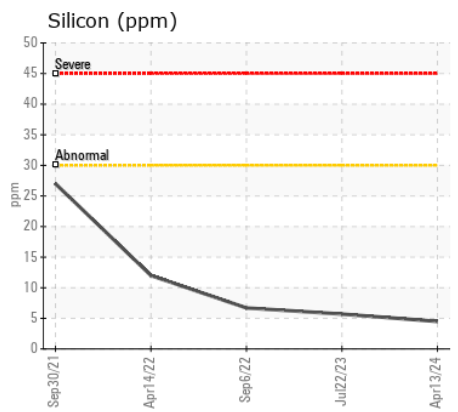
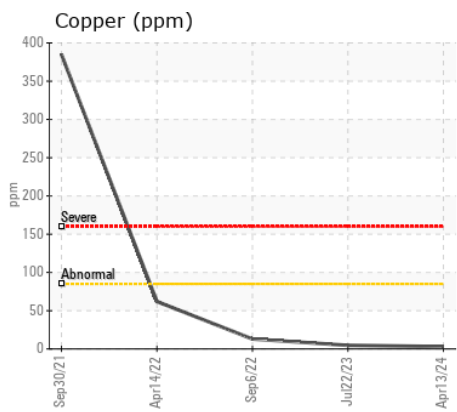
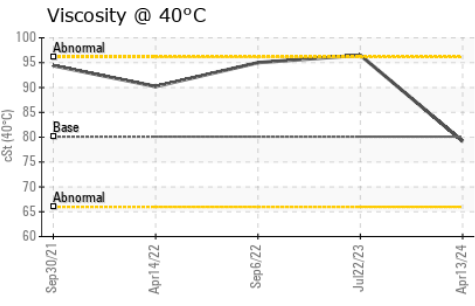
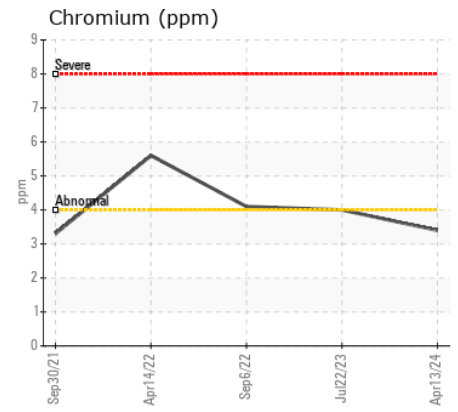
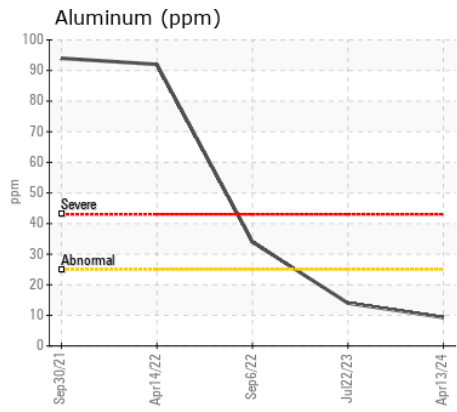
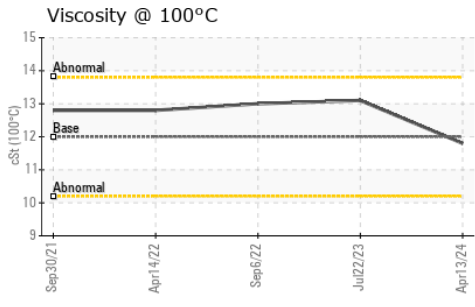
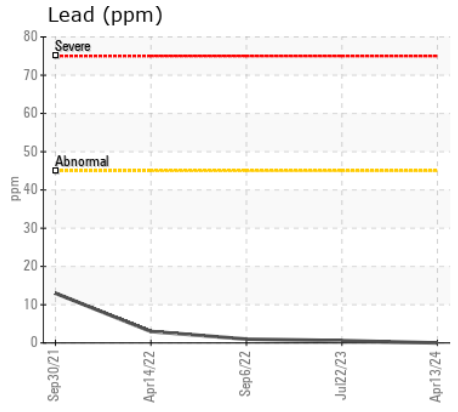
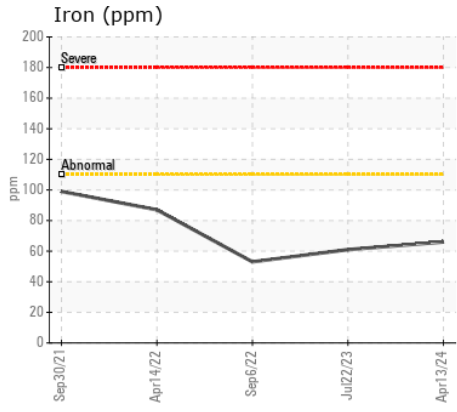
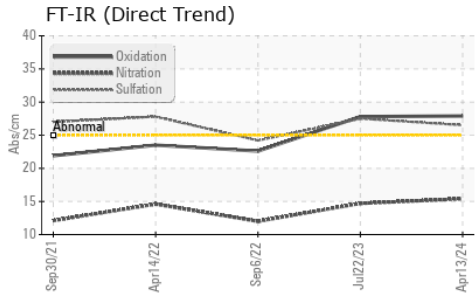
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	4	6	7
Potassium	ppm	ASTM D5185(m)	>20	13	26	72
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.8	0.8	0.6
Nitration	Abs/cm	ASTM D7624*	>20	15.4	14.7	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.5	27.5	24.2
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		4	5	5
Boron	ppm	ASTM D5185(m)	2	2	<1	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	58	58	58
Manganese	ppm	ASTM D5185(m)	0	<1	<1	1
Magnesium	ppm	ASTM D5185(m)	950	940	936	941
Calcium	ppm	ASTM D5185(m)	1050	1035	1024	1109
Phosphorus	ppm	ASTM D5185(m)	995	977	906	925
Zinc	ppm	ASTM D5185(m)	1180	1172	1124	1154
Sulfur	ppm	ASTM D5185(m)	2600	2343	2361	2400
Oxidation	Abs/.1mm	ASTM D7414*	>25	27.9	27.8	22.6
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	79.2	96.5	95.0
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.8	13.1	13.0
Viscosity Index (VI)	Scale	ASTM D2270*	144	142	133	134



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083435
Lab Number : 02635483
Unique Number : 5776636
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)
Received : 15 May 2024
Tested : 15 May 2024
Diagnosed : 15 May 2024 - Kevin Marson

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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.