

Machine Id
PETERBILT 467
Component
Diesel Engine
Fluid
PETRO CANADA DURON SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0081917	PC0036770	PC0060839
Sample Date		Client Info		16 May 2024	23 Nov 2023	22 Sep 2022
Machine Age	kms	Client Info		469788	366116	1478634
Oil Age	kms	Client Info		93622	80268	58421
Filter Age	kms	Client Info		93622	80268	58421
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>110	12	10	14
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	4	7	3
Lead	ppm	ASTM D5185(m)	>45	0	<1	0
Copper	ppm	ASTM D5185(m)	>85	2	2	2
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

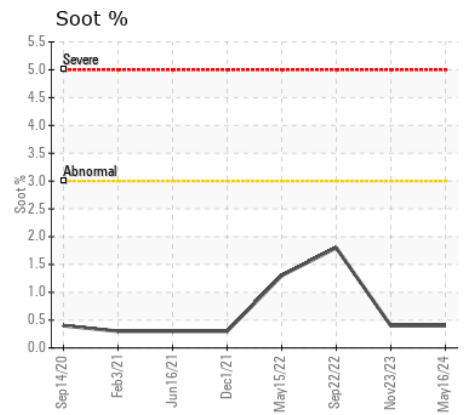
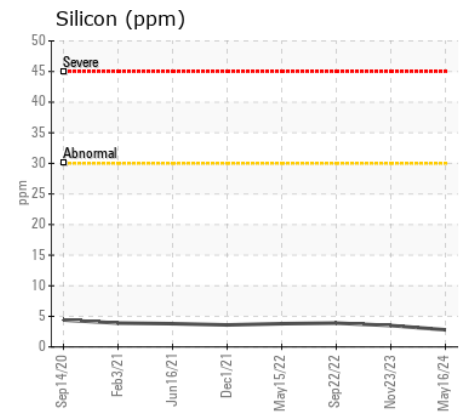
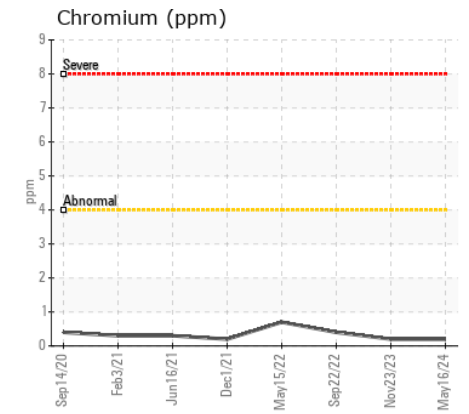
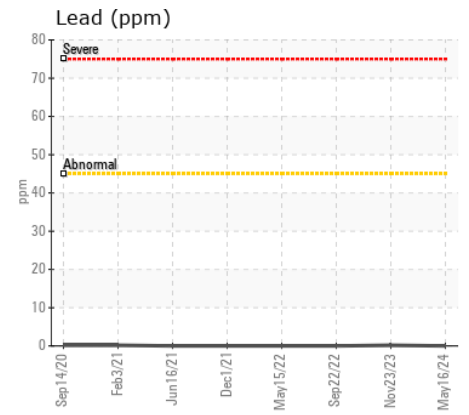
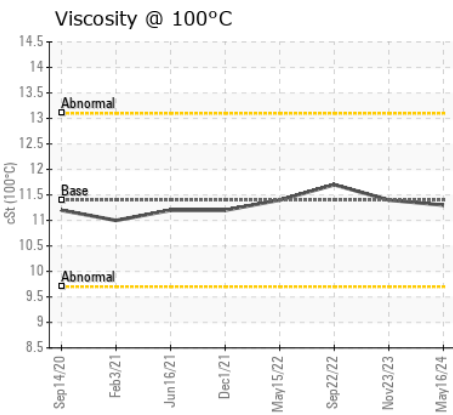
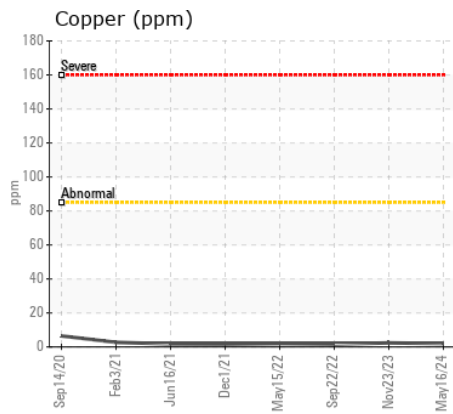
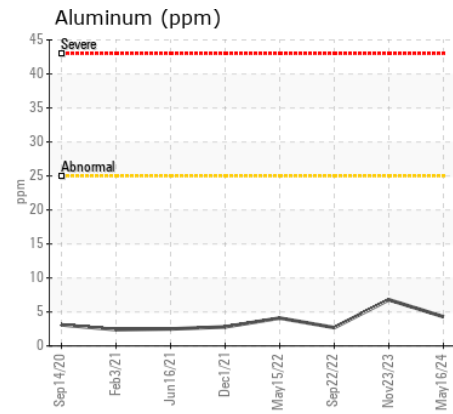
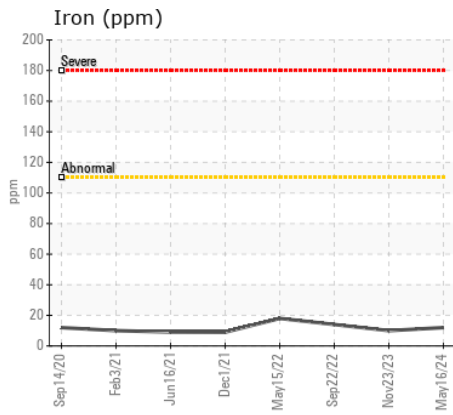
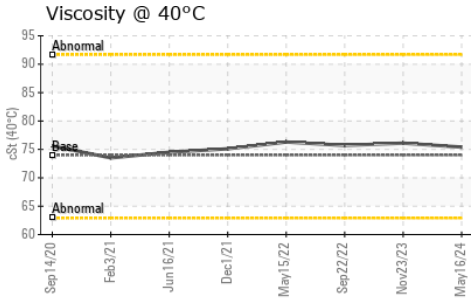
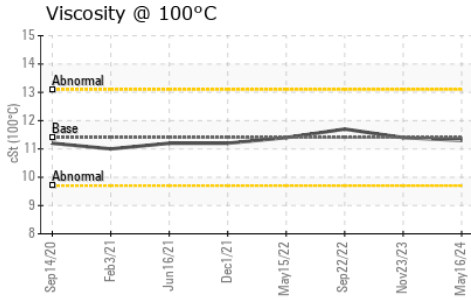
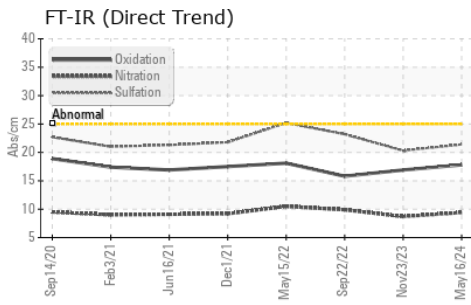
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	3	4	4
Potassium	ppm	ASTM D5185(m)	>20	4	12	<1
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	0.4	0.4	1.8
Nitration	Abs/cm	ASTM D7624*	>20	9.4	8.7	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.4	20.3	23.2
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)		2	2	2
Boron	ppm	ASTM D5185(m)	1	3	4	7
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	1	59	57	58
Manganese	ppm	ASTM D5185(m)	1	0	0	<1
Magnesium	ppm	ASTM D5185(m)	10	953	923	919
Calcium	ppm	ASTM D5185(m)	2942	1080	1068	1104
Phosphorus	ppm	ASTM D5185(m)	1102	973	980	1041
Zinc	ppm	ASTM D5185(m)	1351	1161	1127	1141
Sulfur	ppm	ASTM D5185(m)	3903	2381	2660	2489
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.8	16.9	15.8
Visc @ 40°C	cSt	ASTM D7279(m)	74.0	75.4	76.1	75.7
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	11.3	11.4	11.7
Viscosity Index (VI)	Scale	ASTM D2270*	146	141	141	148



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081917
Lab Number : 02636581
Unique Number : 5785743
Test Package : MOB 1 (Additional Tests: KV40, VI)

Received : 21 May 2024
Tested : 21 May 2024
Diagnosed : 21 May 2024 - Wes Davis

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.

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