



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 432457
Component
Diesel Engine
Fluid
SHELL 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0720871	WC0720879	---
Sample Date		Client Info		20 Feb 2024	15 Sep 2022	---
Machine Age	kms	Client Info		2343773	2235209	---
Oil Age	kms	Client Info		24000	31044	---
Filter Age	kms	Client Info		24000	31044	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>110	13	12	---
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>2	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	3	2	---
Lead	ppm	ASTM D5185(m)	>45	0	<1	---
Copper	ppm	ASTM D5185(m)	>85	3	3	---
Tin	ppm	ASTM D5185(m)	>4	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

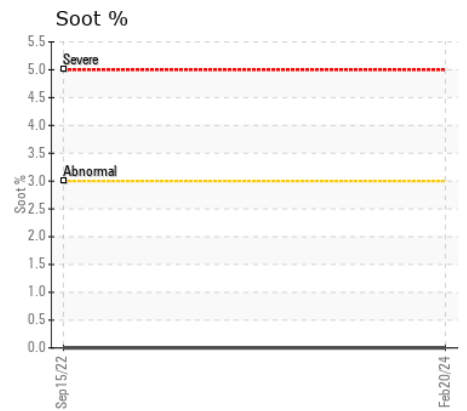
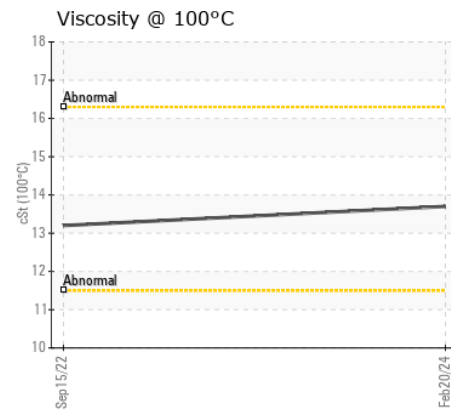
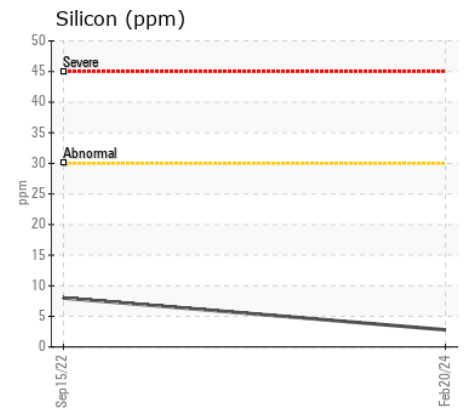
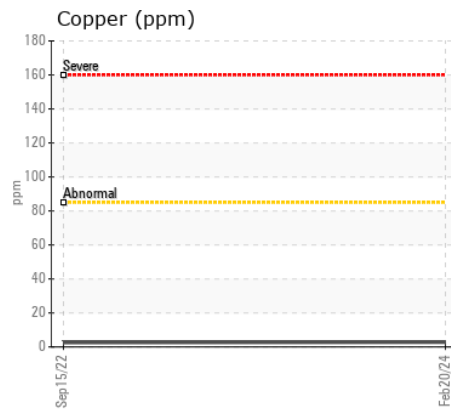
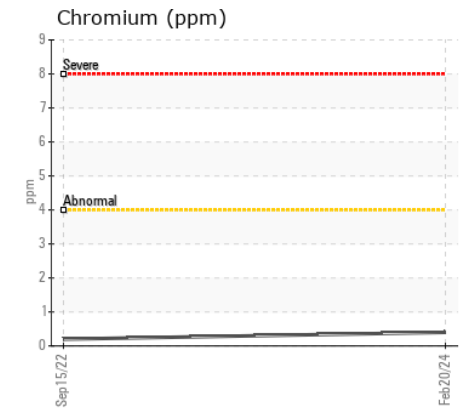
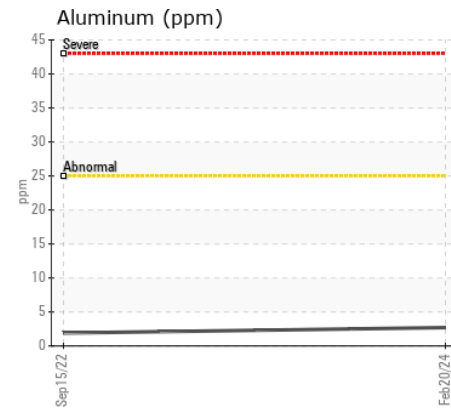
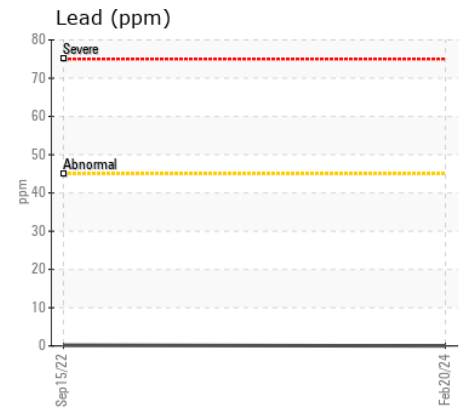
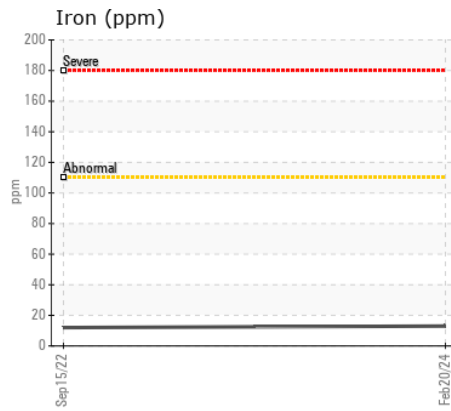
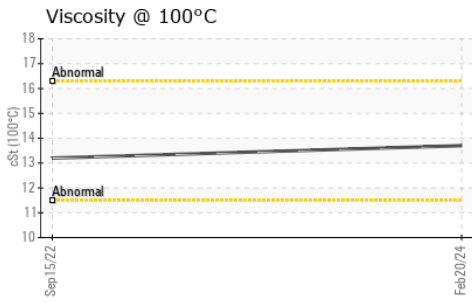
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	3	8	---
Potassium	ppm	ASTM D5185(m)	>20	5	5	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.2	7.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.3	22.4	---
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	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>150	2	3	---
Boron	ppm	ASTM D5185(m)		119	102	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		7	9	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		170	90	---
Calcium	ppm	ASTM D5185(m)		1969	2081	---
Phosphorus	ppm	ASTM D5185(m)		890	956	---
Zinc	ppm	ASTM D5185(m)		1027	1043	---
Sulfur	ppm	ASTM D5185(m)		2794	2761	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.6	18.2	---
Visc @ 100°C	cSt	ASTM D7279(m)		13.7	13.2	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0720871
Lab Number : 02617619
Unique Number : 5734729
Test Package : MOB 1 (Additional Tests: Visual)
Received : 23 Feb 2024
Tested : 23 Feb 2024
Diagnosed : 23 Feb 2024 - Kevin Marson

MCS MECHANICAL CONTRACTING SERVICE
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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.