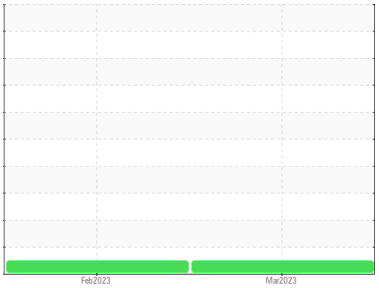
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
PETERBILT 49
Component
Diesel Engine
Fluid
PETRO CANADA DURON SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0073152**	PC0054022	---
Sample Date		Client Info		**08 Mar 2023**	04 Feb 2023	---
Machine Age	kms	Client Info		**134749**	84661	---
Oil Age	kms	Client Info		**50088**	62967	---
Oil Changed		Client Info		**Changed**	Changed	---
Sample Status				**NORMAL**	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	0.6	---
Glycol		WC Method		**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	**58**	61	---
Chromium	ppm	ASTM D5185(m)	>20	**3**	2	---
Nickel	ppm	ASTM D5185(m)	>2	**<1**	1	---
Titanium	ppm	ASTM D5185(m)	>2	**<1**	<1	---
Silver	ppm	ASTM D5185(m)	>2	**<1**	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	**63**	67	---
Lead	ppm	ASTM D5185(m)	>40	**1**	1	---
Copper	ppm	ASTM D5185(m)	>330	**5**	10	---
Tin	ppm	ASTM D5185(m)	>15	**<1**	2	---
Antimony	ppm	ASTM D5185(m)		**0**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	**9**	13	---
Barium	ppm	ASTM D5185(m)	1	**0**	<1	---
Molybdenum	ppm	ASTM D5185(m)	1	**54**	27	---
Manganese	ppm	ASTM D5185(m)	1	**1**	2	---
Magnesium	ppm	ASTM D5185(m)	10	**738**	121	---
Calcium	ppm	ASTM D5185(m)	2942	**1426**	2332	---
Phosphorus	ppm	ASTM D5185(m)	1102	**1030**	954	---
Zinc	ppm	ASTM D5185(m)	1351	**1186**	1068	---
Sulfur	ppm	ASTM D5185(m)	3903	**2651**	2932	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**9**	13	---
Sodium	ppm	ASTM D5185(m)		**3**	3	---
Potassium	ppm	ASTM D5185(m)	>20	**155**	178	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**0.5**	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	**9.7**	9.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**20.9**	21.8	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**14.3**	13.1	---

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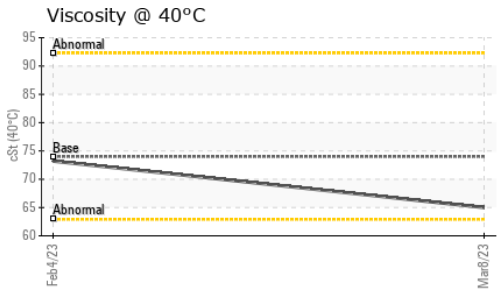
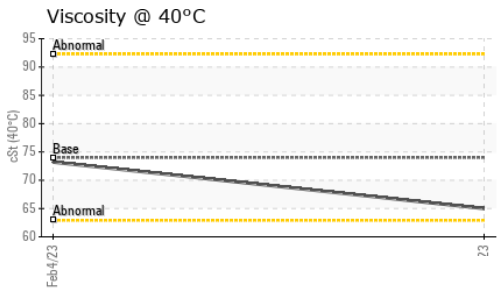
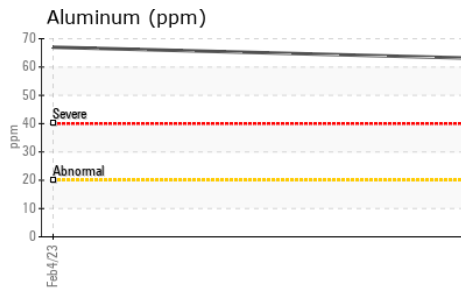


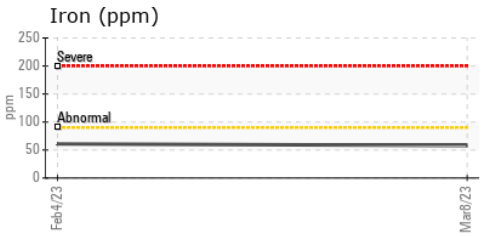


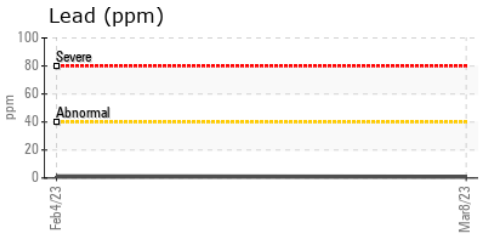


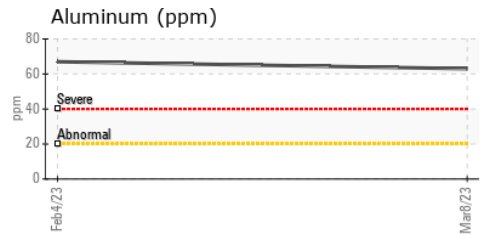
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	VLITE	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	---
Silt	scalar	Visual*	NONE	**VLITE**	VLITE	---
Debris	scalar	Visual*	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	---
Appearance	scalar	Visual*	NORML	**NORML**	NORML	---
Odor	scalar	Visual*	NORML	**NORML**	NORML	---
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	---
Free Water	scalar	Visual*		**NEG**	NEG	---

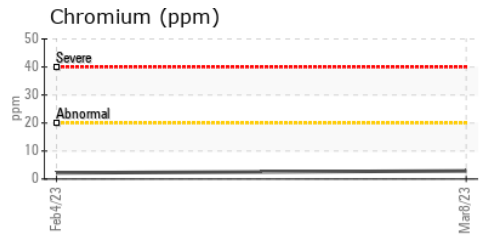
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	74.0	**65.0**	73.2	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	**10.8**	11.0	---
Viscosity Index (VI)	Scale	ASTM D2270*	146	**157**	140	---

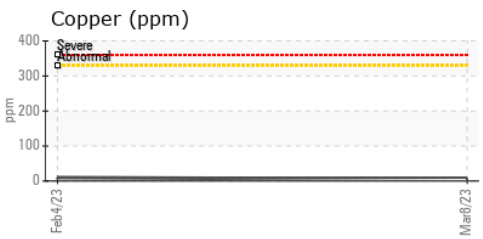
GRAPHS

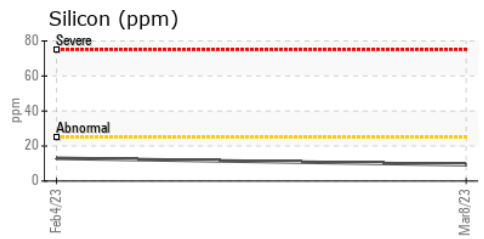


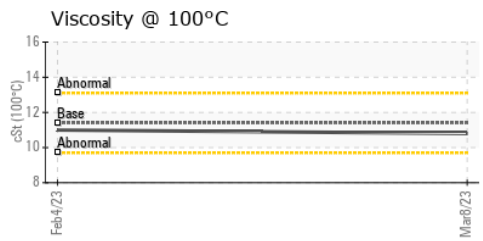


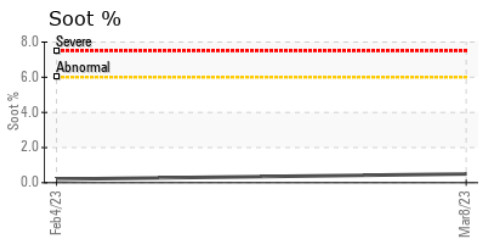












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0073152 **Received** : 31 Jul 2023
Lab Number : 02573156 **Diagnosed** : 31 Jul 2023
Unique Number : 5618207 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

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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