

Machine Id  
**PETERBILT D35**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON UHP 5W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

### Wear

Les taux d'usure de tous les composants sont normaux.

### 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. Il n'y a aucun indice de contamination dans l'huile.

### Fluid Condition

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. L'état de l'huile permet d'en prolonger l'utilisation.

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number	Client Info			<b>PC0074364</b>	PC0036610	PC0024616
Sample Date	Client Info			<b>16 Jun 2023</b>	09 Feb 2021	30 Nov 2020
Machine Age	hrs	Client Info		<b>7411</b>	800	400
Oil Age	hrs	Client Info		<b>554</b>	800	400
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history 1	history 2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method			<b>NEG</b>	0.0	0.0

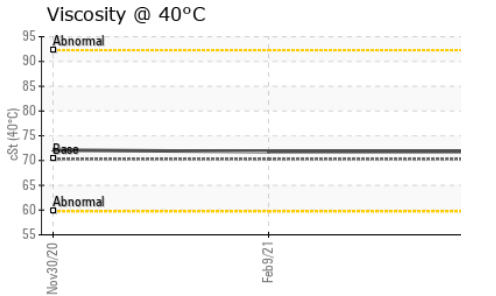
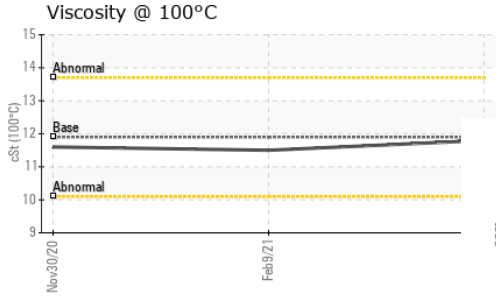
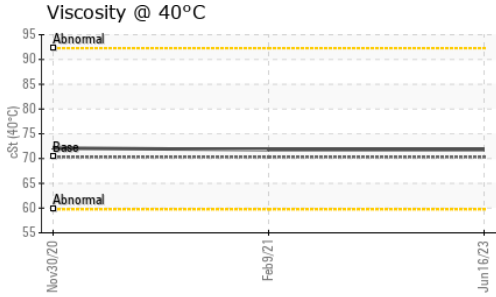
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m)	>110	<b>21</b>	43	23
Chromium	ppm	ASTM D5185(m)	>4	<b>1</b>	2	1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>5</b>	29	22
Lead	ppm	ASTM D5185(m)	>45	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185(m)	>85	<b>2</b>	32	33
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)	0	<b>16</b>	14	20
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	64	<b>58</b>	55	57
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185(m)	1160	<b>1054</b>	1022	1045
Calcium	ppm	ASTM D5185(m)	820	<b>856</b>	862	875
Phosphorus	ppm	ASTM D5185(m)	1160	<b>1001</b>	851	905
Zinc	ppm	ASTM D5185(m)	1260	<b>1175</b>	1164	1178
Sulfur	ppm	ASTM D5185(m)	3000	<b>2691</b>	2607	2719
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)	>30	<b>5</b>	7	6
Sodium	ppm	ASTM D5185(m)		<b>3</b>	5	5
Potassium	ppm	ASTM D5185(m)	>20	<b>8</b>	95	72

INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0.3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.3</b>	12.0	10.5
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>21.9</b>	25.1	21.8

# OIL ANALYSIS REPORT

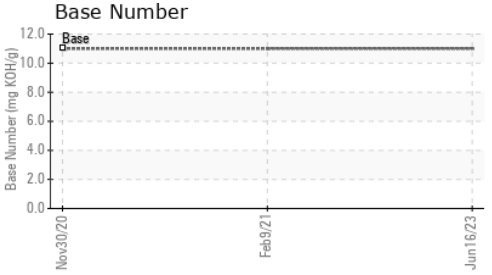
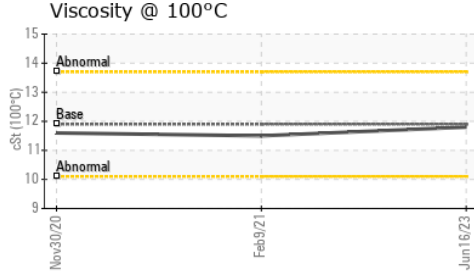
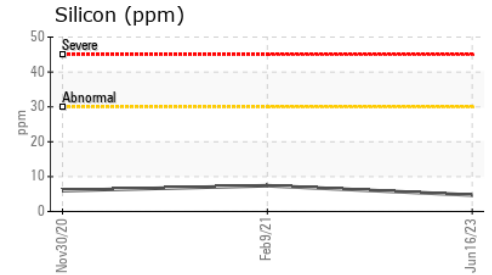
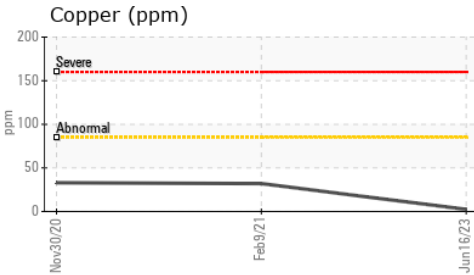
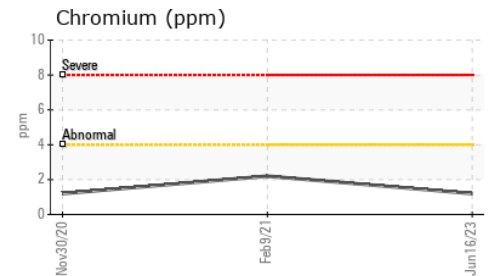
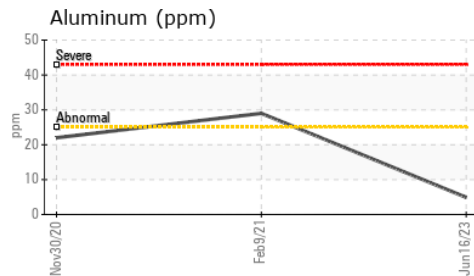
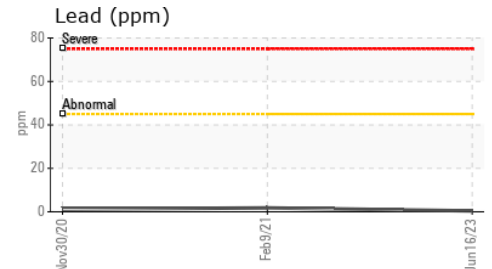
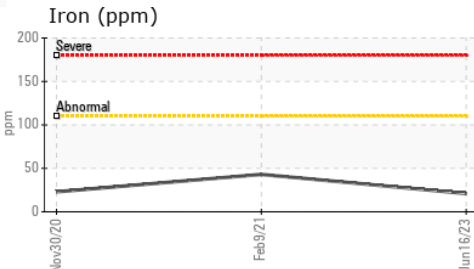


FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>21.4</b>	23.4	20.6
Base Number (BN)	mg KOH/g	ASTM D2896*	11.0	<b>7.61</b>	---	---

VISUAL		method	limit/base	current	history 1	history 2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	70.3	<b>71.8</b>	71.8	72.1
Visc @ 100°C	cSt	ASTM D7279(m)	11.9	<b>11.8</b>	11.5	11.6
Viscosity Index (VI)	Scale	ASTM D2270*	161	<b>160</b>	154	155

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0074364 **Received** : 22 Jun 2023  
**Lab Number** : **02565841** **Diagnosed** : 22 Jun 2023  
**Unique Number** : 5602887 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV40, VI )

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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.

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