

Machine Id  
**CATERPILLAR 95-94**  
Component  
**Rear Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (40 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0078900</b>	PC0075737	PC0060131
Sample Date		Client Info		<b>28 Mar 2024</b>	27 Jun 2023	10 Aug 2022
Machine Age	hrs	Client Info		<b>26409</b>	25920	25291
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>32</b>	41	46
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	6	6
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	5	7
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

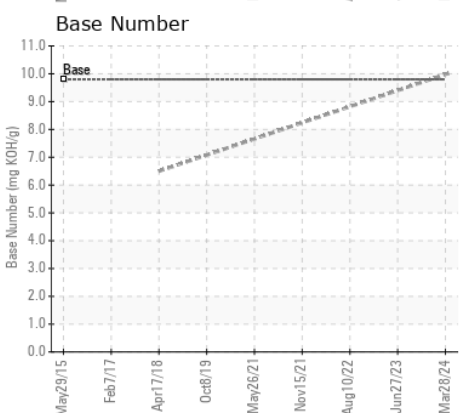
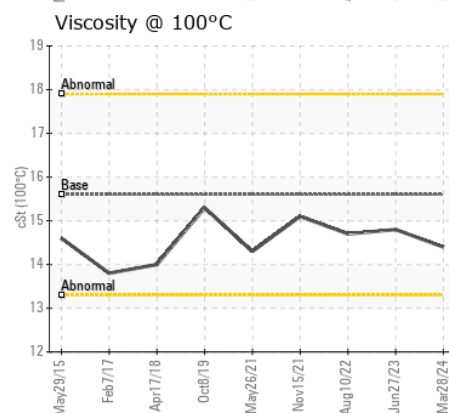
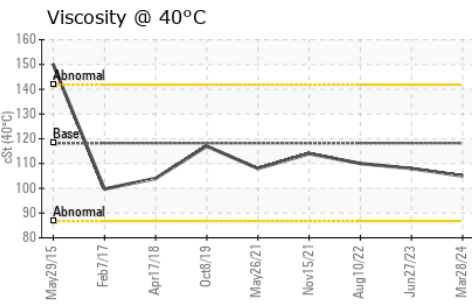
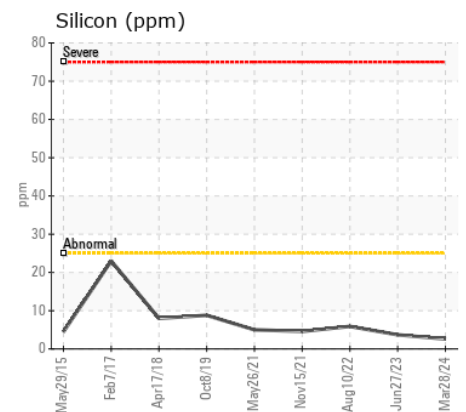
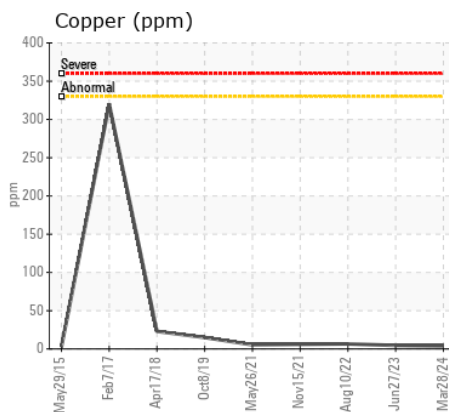
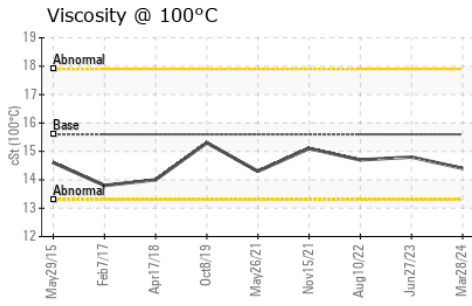
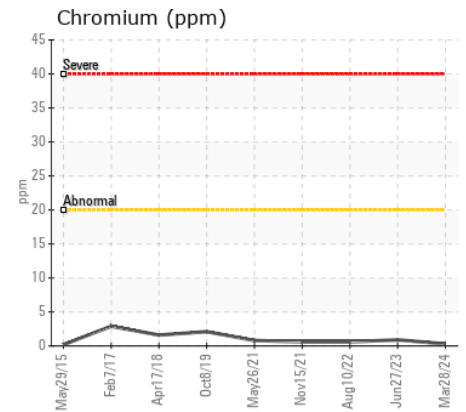
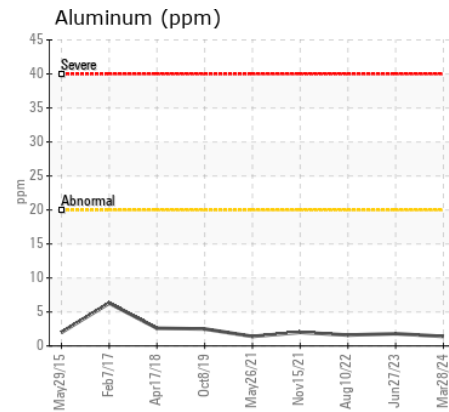
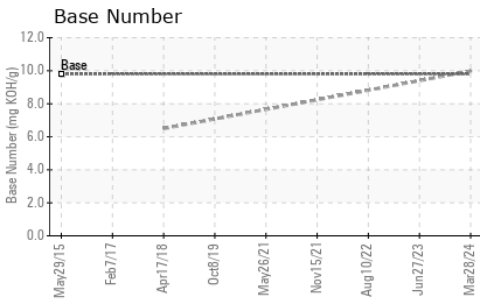
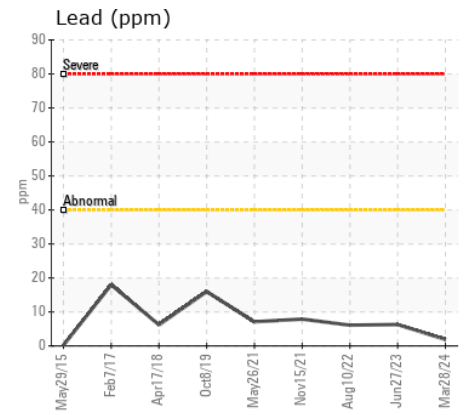
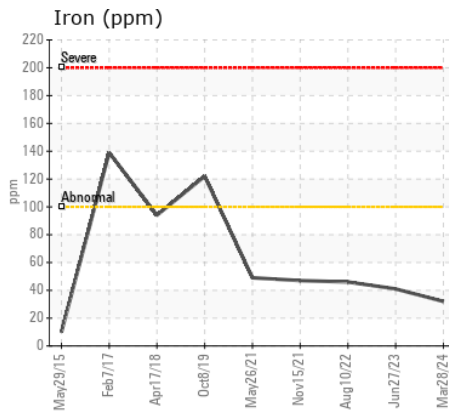
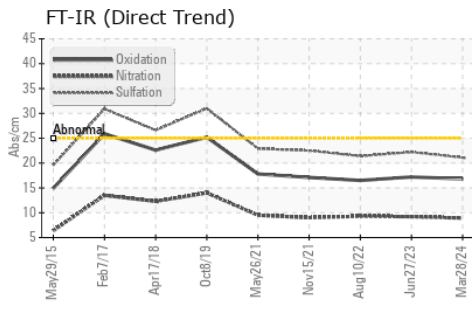
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	4	6
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.8</b>	0.9	1.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.9</b>	9.2	9.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.1</b>	22.2	21.4
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>1</b>	3	4
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	2	13
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>63</b>	60	67
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>1001</b>	979	789
Calcium	ppm	ASTM D5185(m)	1070	<b>1082</b>	1057	1370
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1028</b>	1046	1043
Zinc	ppm	ASTM D5185(m)	1270	<b>1206</b>	1192	1241
Sulfur	ppm	ASTM D5185(m)	2060	<b>2543</b>	2510	2757
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.8</b>	17.2	16.5
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	<b>9.98</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	<b>105</b>	108	110
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.4</b>	14.8	14.7
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>140</b>	141	137



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0078900  
**Lab Number** : 02628688  
**Unique Number** : 5761820  
**Test Package** : MOB 2 ( Additional Tests: KV40, VI )

**TRUCK AND EQUIPMENT SOLUTION**  
 2 BERTRAM INDUSTRIAL PKWY.  
 MIDHURST, ON  
 CA L9X 1L2  
 Contact: Julie Holden  
 parts@tesbarrie.com  
 T: (705)792-7620  
 F: (705)725-5425

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.