



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**KENWORTH 73**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (44 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0083928</b>	PC0071047	PC0053981
Sample Date		Client Info		<b>21 Feb 2024</b>	15 Feb 2023	03 Mar 2022
Machine Age	kms	Client Info		<b>1042025</b>	1008969	974137
Oil Age	kms	Client Info		<b>33056</b>	34832	32256
Filter Age	kms	Client Info		<b>33056</b>	34832	32256
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)	>165	<b>27</b>	18	20
Chromium	ppm	ASTM D5185(m)	>5	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>150	<b>3</b>	3	5
Copper	ppm	ASTM D5185(m)	>90	<b>1</b>	1	1
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

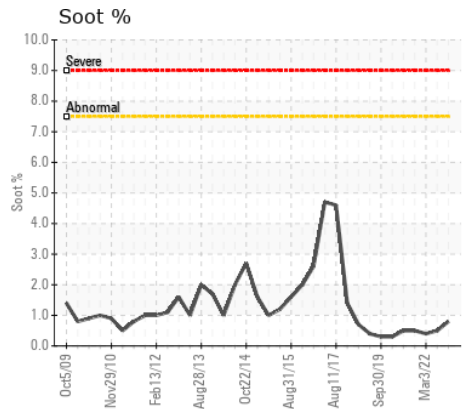
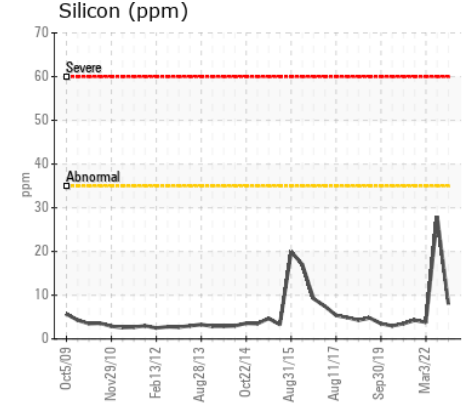
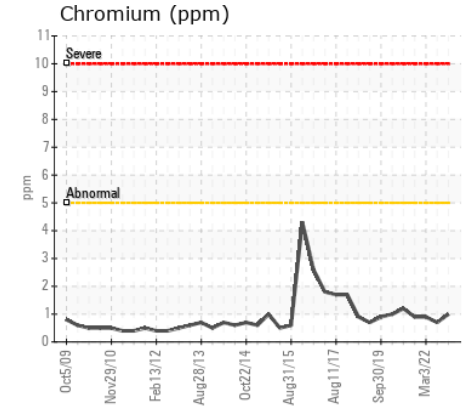
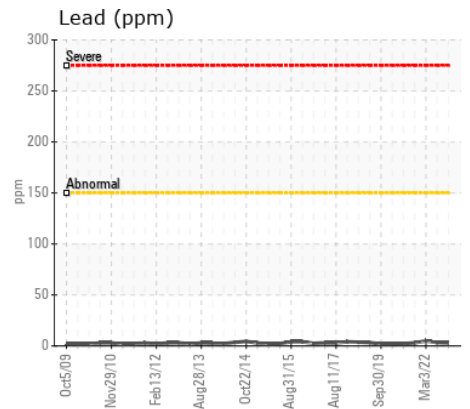
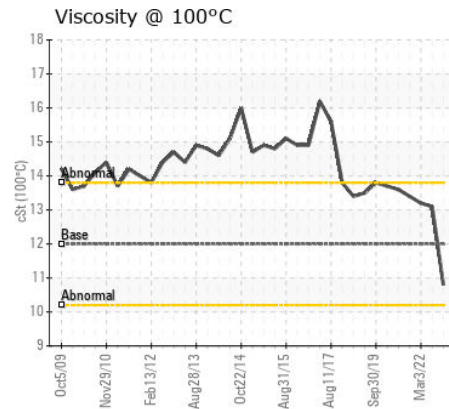
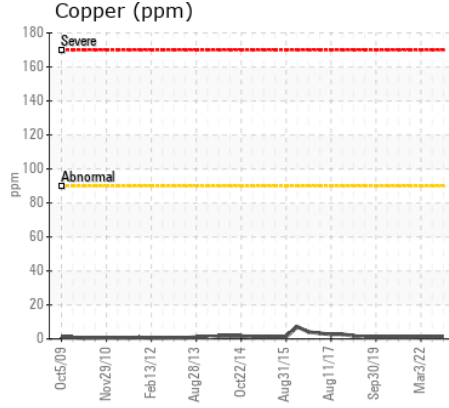
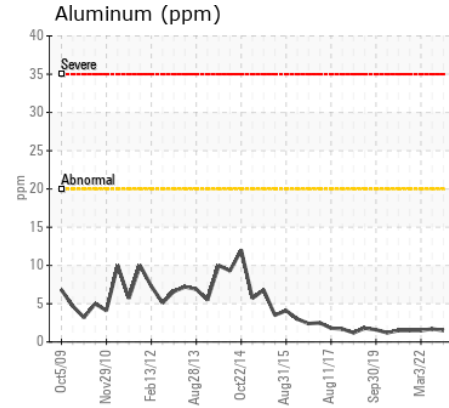
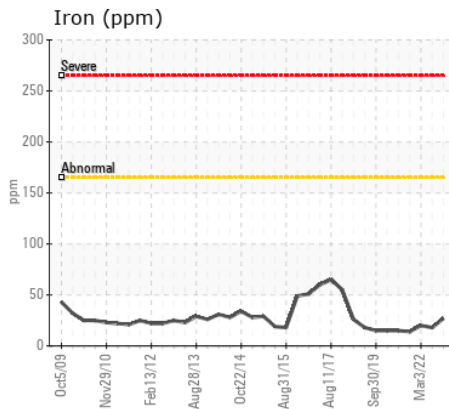
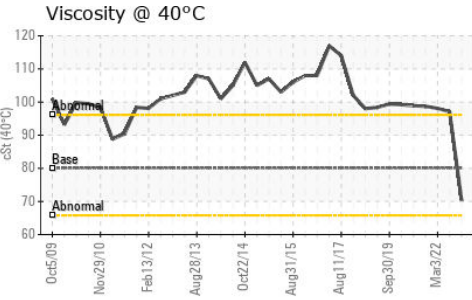
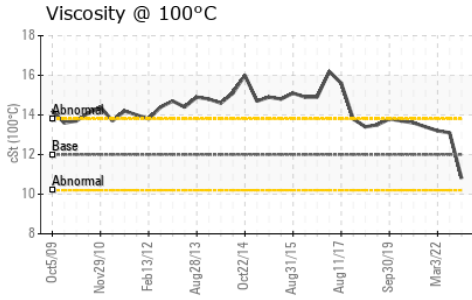
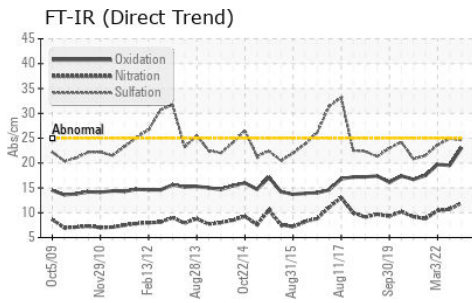
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>8</b>	28	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Fuel		WC Method	>3.0	<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*	>7.5	<b>0.8</b>	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.0</b>	10.7	10.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.6</b>	24.9	23.6
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>6</b>	2	2
Boron	ppm	ASTM D5185(m)	2	<b>1</b>	2	7
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>58</b>	62	62
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>942</b>	1026	1037
Calcium	ppm	ASTM D5185(m)	1050	<b>1013</b>	1163	1118
Phosphorus	ppm	ASTM D5185(m)	995	<b>936</b>	1108	1071
Zinc	ppm	ASTM D5185(m)	1180	<b>1138</b>	1269	1308
Sulfur	ppm	ASTM D5185(m)	2600	<b>2231</b>	2556	2583
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>23.1</b>	19.5	19.7
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	<b>70.3</b>	97.1	98.1
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>10.8</b>	13.1	13.2
Viscosity Index (VI)	Scale	ASTM D2270*	144	<b>142</b>	132	132



ISO 17025:2017  
 Accredited  
 Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0083928  
**Lab Number** : 02626848  
**Unique Number** : 5759980  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**ROSS TOWING & TRANSPORTATION SERVICES INC**  
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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.