



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**FREIGHTLINER 128**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (18 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083432	PC0081933	PC0071669
Sample Date		Client Info		03 Apr 2024	30 Oct 2023	09 Jun 2023
Machine Age	kms	Client Info		331160	309214	285108
Oil Age	kms	Client Info		21946	24106	26484
Filter Age	kms	Client Info		21946	24106	26484
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>130	44	39	43
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	3	2	3
Lead	ppm	ASTM D5185(m)	>20	0	0	0
Copper	ppm	ASTM D5185(m)	>125	2	1	1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

**CONTAMINATION**

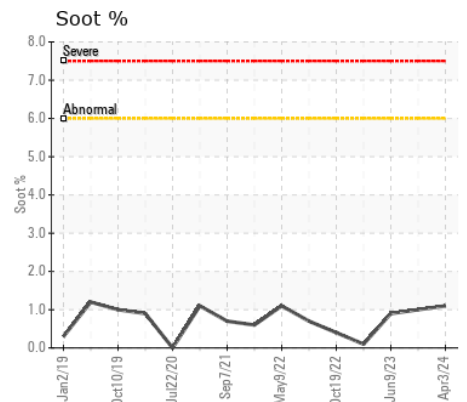
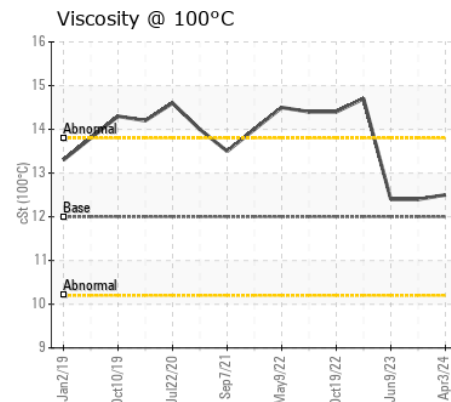
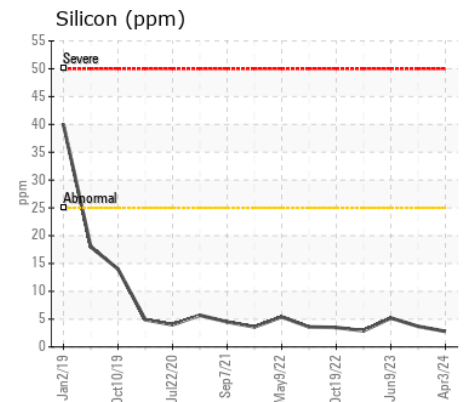
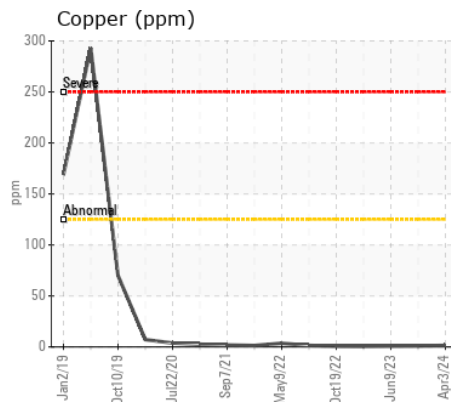
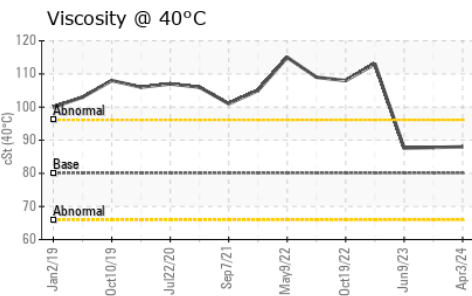
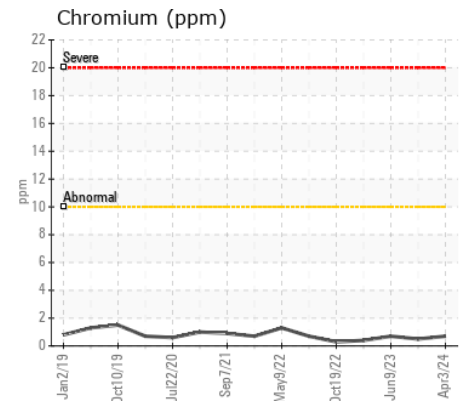
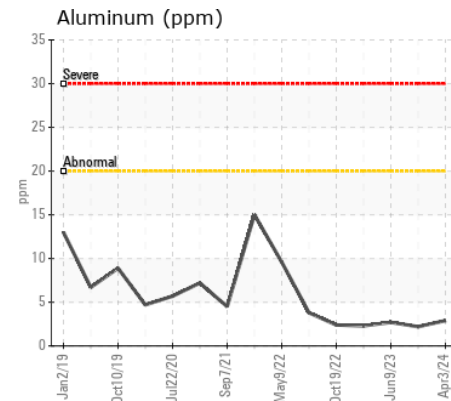
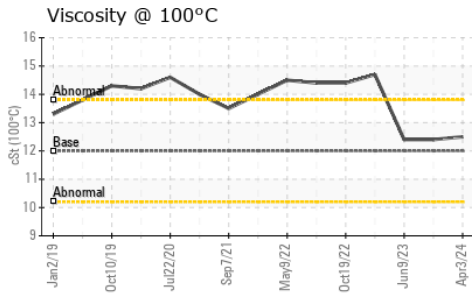
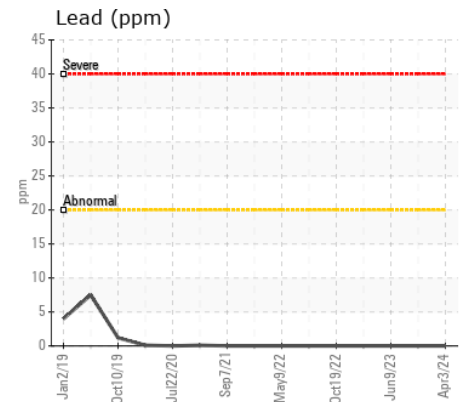
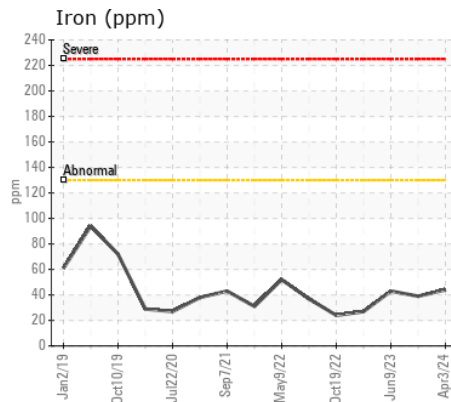
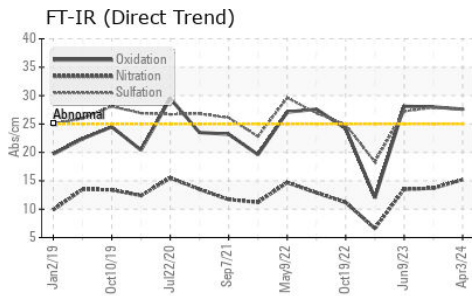
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	4	5
Potassium	ppm	ASTM D5185(m)	>20	3	1	3
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	1.1	1	0.9
Nitration	Abs/cm	ASTM D7624*	>20	15.2	13.7	13.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.6	27.9	27.2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		3	4	3
Boron	ppm	ASTM D5185(m)	2	5	1	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	62	63	61
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	950	986	999	984
Calcium	ppm	ASTM D5185(m)	1050	1077	1090	1139
Phosphorus	ppm	ASTM D5185(m)	995	1002	1031	1077
Zinc	ppm	ASTM D5185(m)	1180	1205	1282	1268
Sulfur	ppm	ASTM D5185(m)	2600	2197	2330	2363
Oxidation	Abs/.1mm	ASTM D7414*	>25	27.6	28.0	28.1
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	88.0	87.8	87.6
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	12.5	12.4	12.4
Viscosity Index (VI)	Scale	ASTM D2270*	144	138	136	137



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0083432  
**Lab Number** : 02635484  
**Unique Number** : 5776637  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**ROSS TOWING & TRANSPORTATION SERVICES INC**  
 995 POND MILLS RD  
 LONDON, ON  
 CA N6N 1C3  
 Contact: Dave Ross  
 chris@rosstowing.ca  
 T: (519)685-1212  
 F: (519)668-5790

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.