



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
MACK 6457
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083010	PC0071358	PC0071889
Sample Date		Client Info		02 Apr 2024	15 Nov 2023	28 Jun 2023
Machine Age	hrs	Client Info		4130	3251	2234
Oil Age	hrs	Client Info		880	1017	871
Filter Age	hrs	Client Info		880	1017	871
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)	>120	26	33	32
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>5	2	2	5
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	2	2
Lead	ppm	ASTM D5185(m)	>40	<1	1	1
Copper	ppm	ASTM D5185(m)	>330	16	23	30
Tin	ppm	ASTM D5185(m)	>15	<1	2	2
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

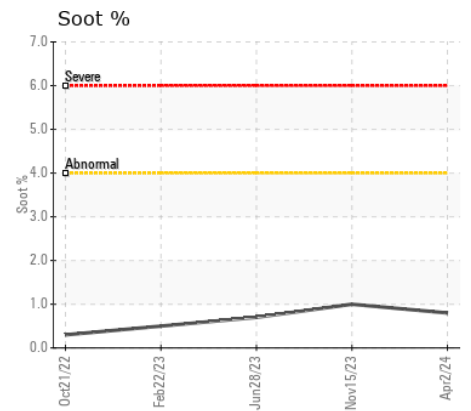
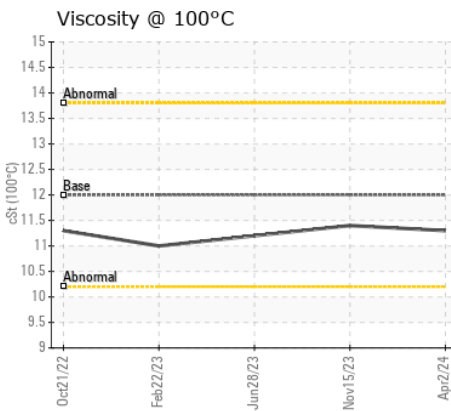
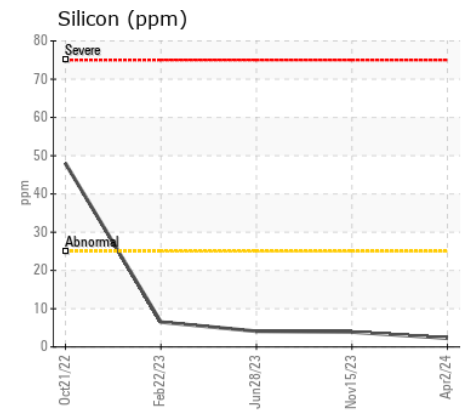
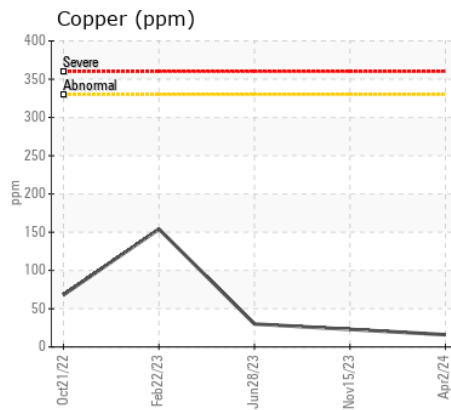
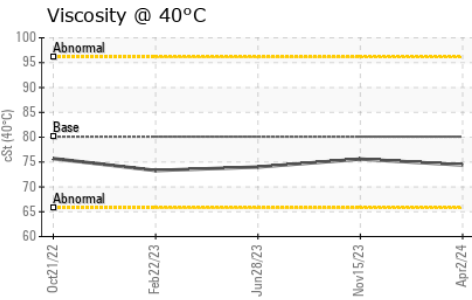
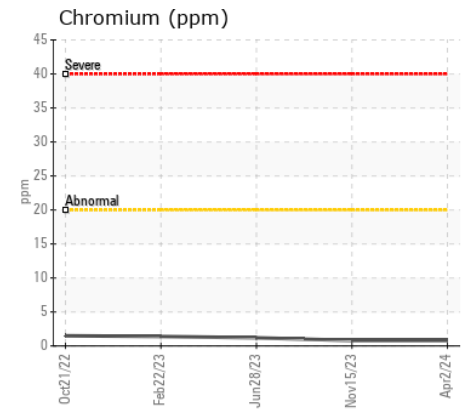
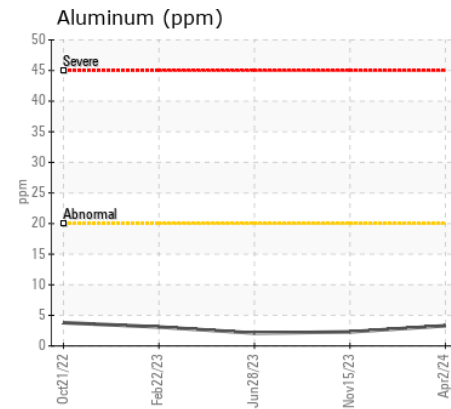
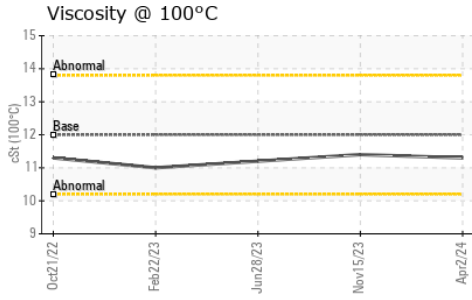
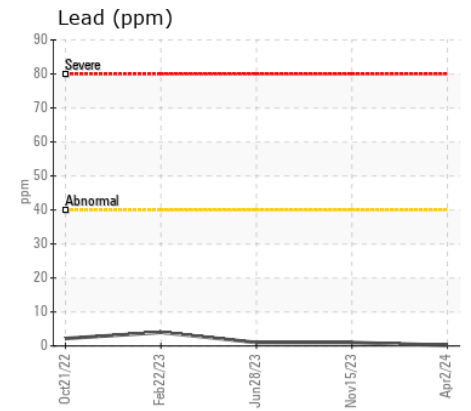
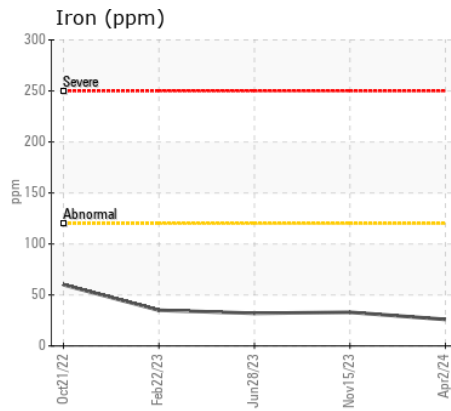
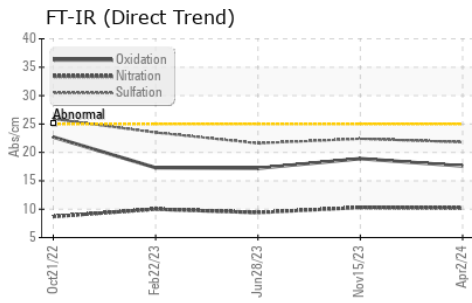
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	4	4
Potassium	ppm	ASTM D5185(m)	>20	4	3	2
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*	>4	0.8	1	0.7
Nitration	Abs/cm	ASTM D7624*	>20	10.2	10.3	9.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.8	22.4	21.6
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)		8	12	11
Boron	ppm	ASTM D5185(m)	2	2	<1	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	62	63	60
Manganese	ppm	ASTM D5185(m)	0	<1	<1	1
Magnesium	ppm	ASTM D5185(m)	950	983	999	991
Calcium	ppm	ASTM D5185(m)	1050	1072	1094	1063
Phosphorus	ppm	ASTM D5185(m)	995	947	949	970
Zinc	ppm	ASTM D5185(m)	1180	1181	1212	1191
Sulfur	ppm	ASTM D5185(m)	2600	2115	1928	1860
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.6	18.9	17.2
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	74.4	75.6	74.0
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	11.4	11.2
Viscosity Index (VI)	Scale	ASTM D2270*	144	143	142	142



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083010 **Received** : 16 Apr 2024
Lab Number : 02629120 **Tested** : 16 Apr 2024
Unique Number : 5762252 **Diagnosed** : 16 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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