



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
MACK 6444
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (38 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0078643	PC0071354	PC0068448
Sample Date		Client Info		01 Feb 2024	25 Sep 2023	10 May 2023
Machine Age	hrs	Client Info		19306	18307	17482
Oil Age	hrs	Client Info		999	825	876
Filter Age	hrs	Client Info		999	825	876
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	15	15	10
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<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	8	8	4
Lead	ppm	ASTM D5185(m)	>40	<1	2	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

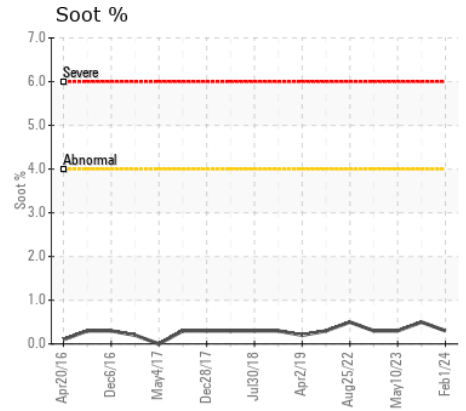
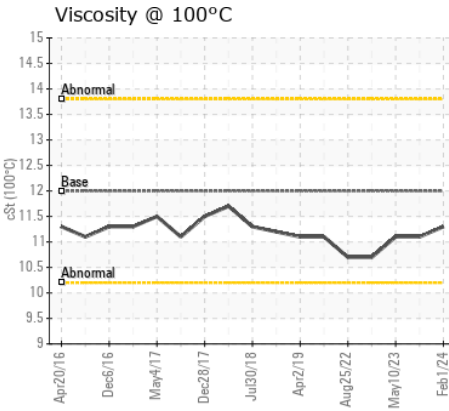
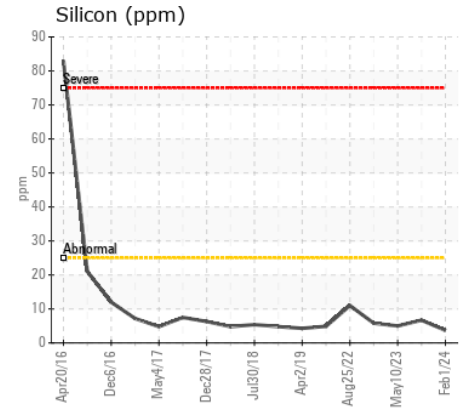
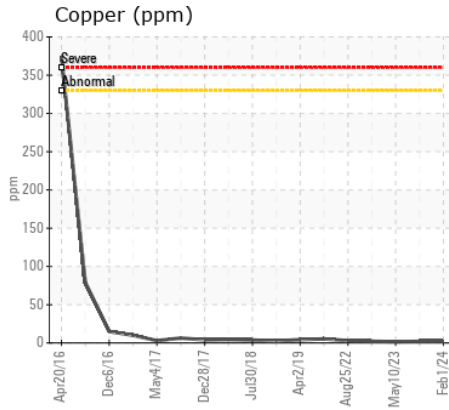
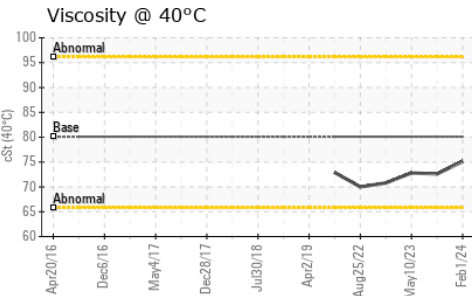
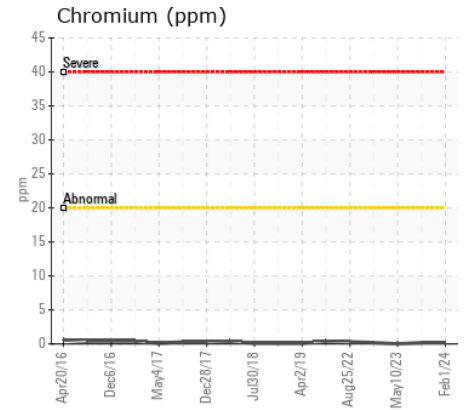
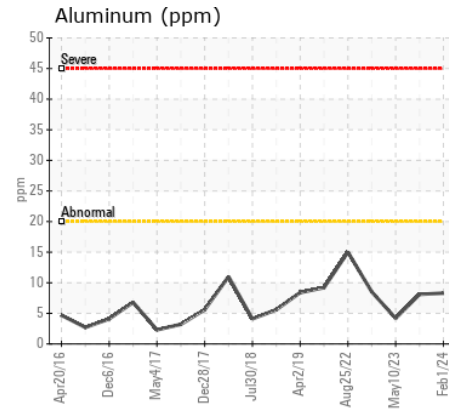
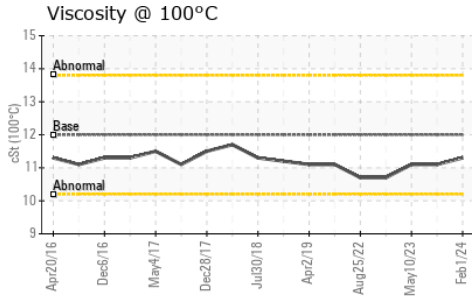
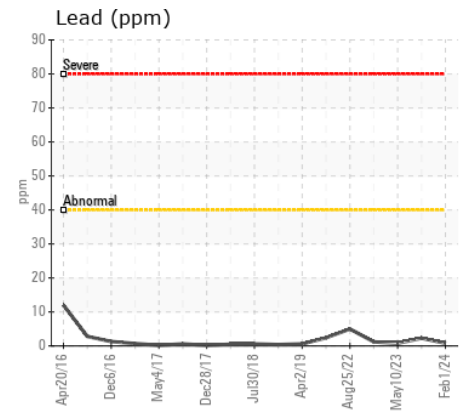
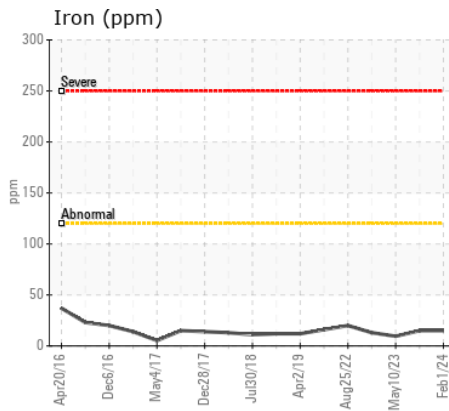
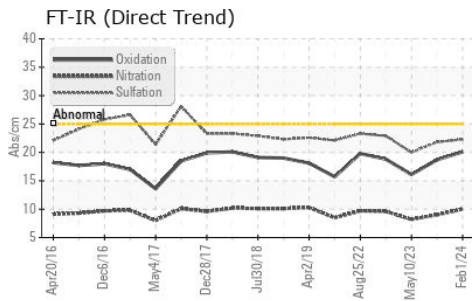
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	7	5
Potassium	ppm	ASTM D5185(m)	>20	5	<1	1
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	0.3	0.5	0.3
Nitration	Abs/cm	ASTM D7624*	>20	10.0	9.0	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	21.8	20.0
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)		6	8	9
Boron	ppm	ASTM D5185(m)	2	2	2	3
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	61	62	62
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	950	992	1009	977
Calcium	ppm	ASTM D5185(m)	1050	1069	1076	1105
Phosphorus	ppm	ASTM D5185(m)	995	969	995	1064
Zinc	ppm	ASTM D5185(m)	1180	1186	1235	1191
Sulfur	ppm	ASTM D5185(m)	2600	2206	2218	2492
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.1	18.7	16.1
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	75.1	72.6	72.8
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	11.1	11.1
Viscosity Index (VI)	Scale	ASTM D2270*	144	141	143	143



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078643 **Received** : 16 Apr 2024
Lab Number : **02629124** **Tested** : 16 Apr 2024
Unique Number : 5762256 **Diagnosed** : 16 Apr 2024 - Wes Davis
Test Package : MOB 1 (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.