



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
Mack T199 (S/N 1M1AN4GY8LM010491)
Component
Diesel Engine
Fluid
INVENTORY EXPRESS 10W30 (44 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0889778	WC0836043	WC0790239
Sample Date		Client Info		05 Jan 2024	14 Jul 2023	25 Feb 2023
Machine Age	kms	Client Info		527654	453170	388092
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
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	56	41	38
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	6	4	6
Lead	ppm	ASTM D5185(m)	>40	6	5	4
Copper	ppm	ASTM D5185(m)	>330	8	6	9
Tin	ppm	ASTM D5185(m)	>15	2	2	2
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

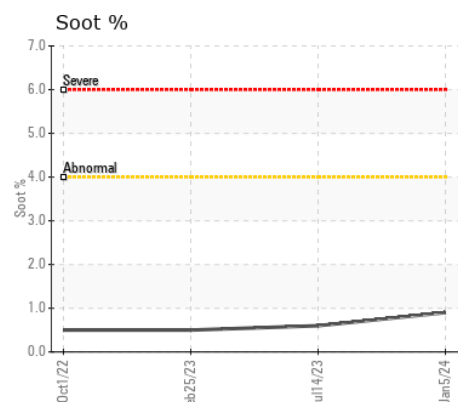
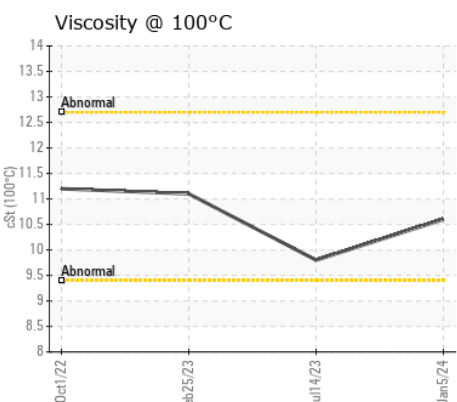
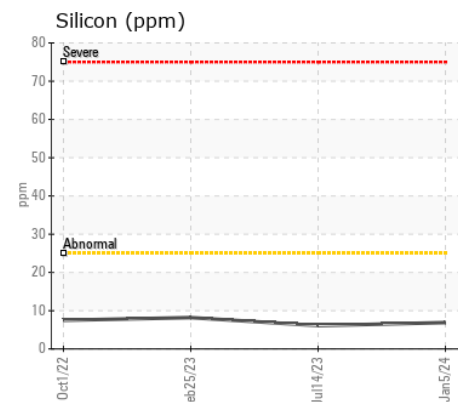
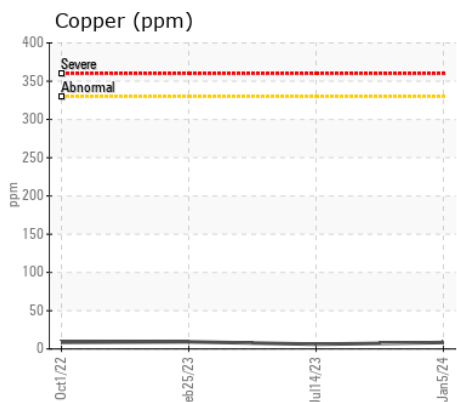
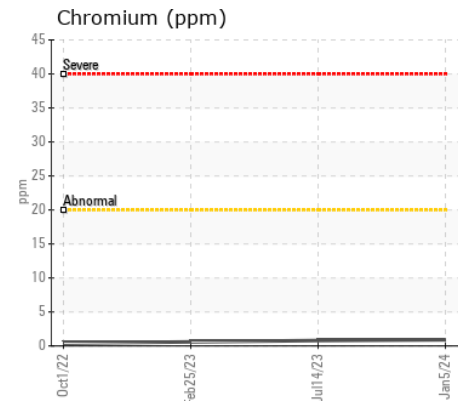
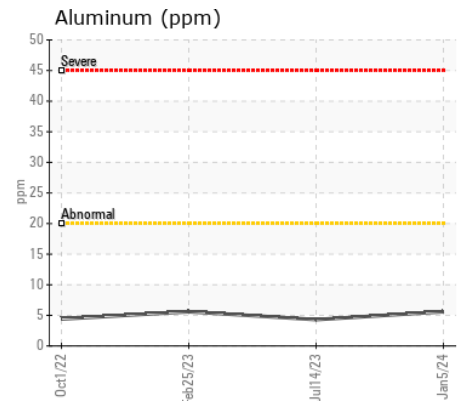
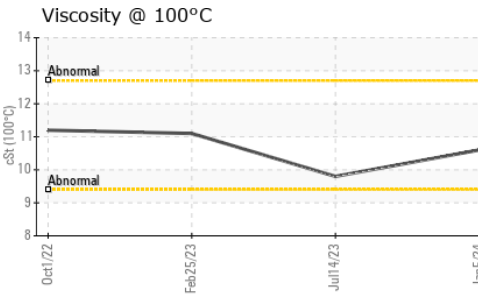
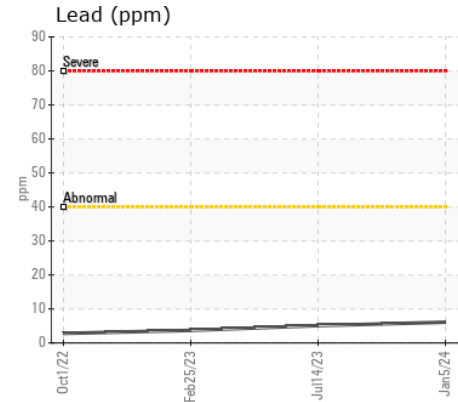
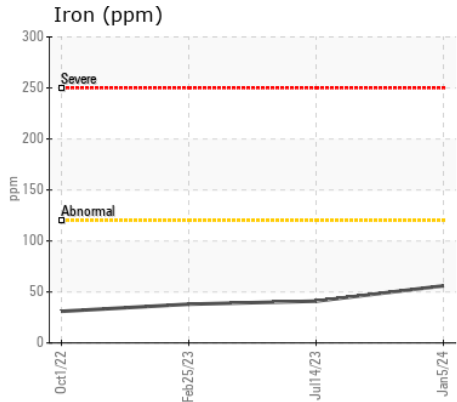
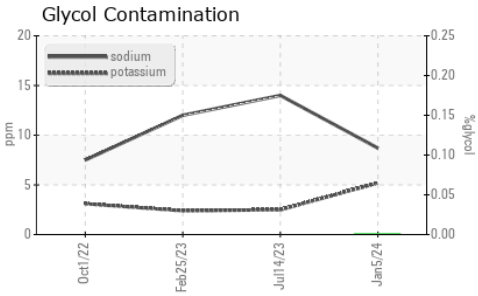
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	6	8
Potassium	ppm	ASTM D5185(m)	>20	5	2	2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.9	0.6	0.5
Nitration	Abs/cm	ASTM D7624*	>20	9.9	9.1	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.0	24.1	27.5
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)		9	14	12
Boron	ppm	ASTM D5185(m)		9	6	9
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		53	81	84
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		334	316	42
Calcium	ppm	ASTM D5185(m)		1214	1562	2192
Phosphorus	ppm	ASTM D5185(m)		817	866	1008
Zinc	ppm	ASTM D5185(m)		991	966	1149
Sulfur	ppm	ASTM D5185(m)		2229	2563	2924
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.5	15.5	19.5
Visc @ 100°C	cSt	ASTM D7279(m)		10.6	9.8	11.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889778 **Received** : 10 Jan 2024
Lab Number : 02607750 **Diagnosed** : 10 Jan 2024
Unique Number : 5708836 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

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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.