



Machine Id  
**MACK 124-0807**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

### RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

### WEAR

All component wear rates are normal.

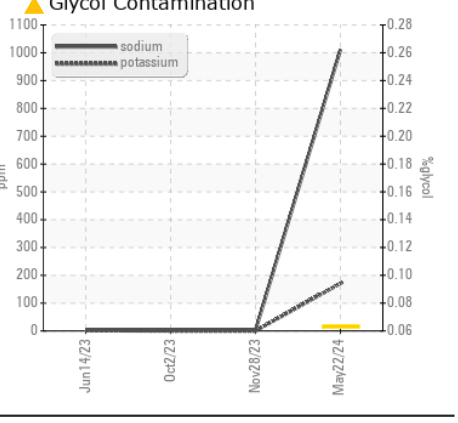
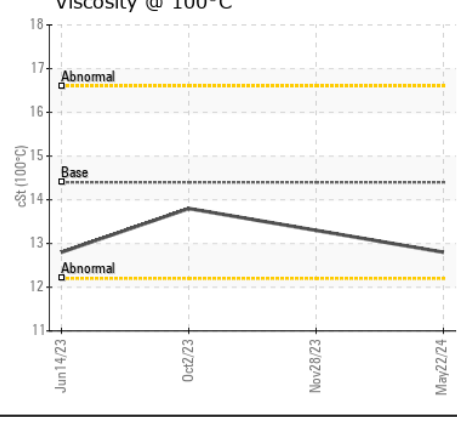
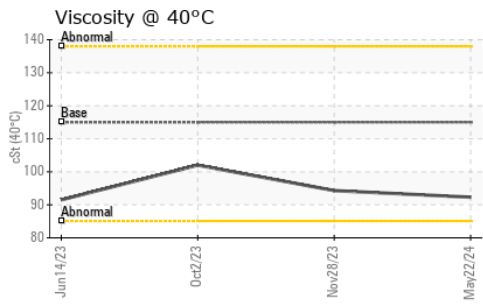
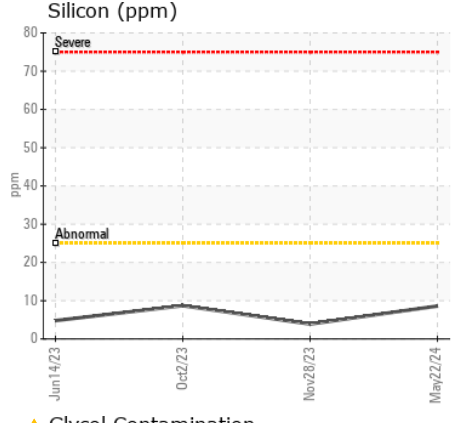
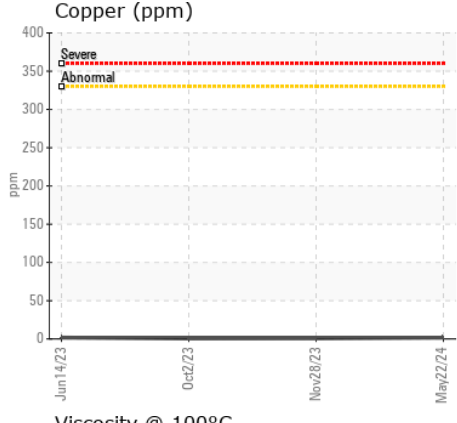
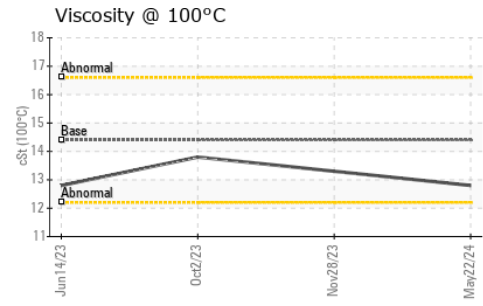
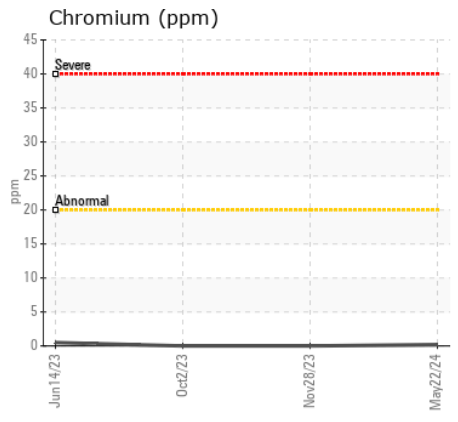
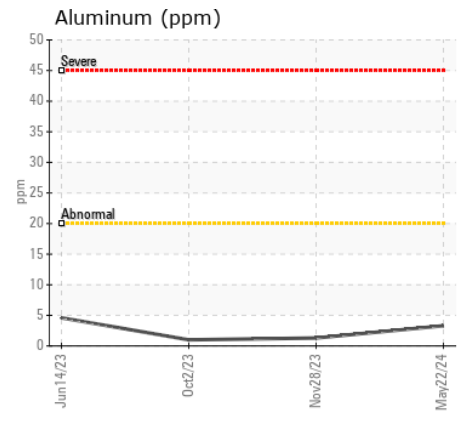
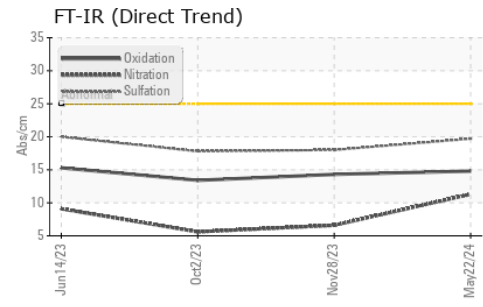
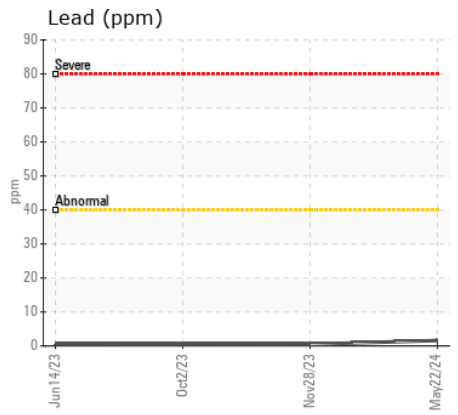
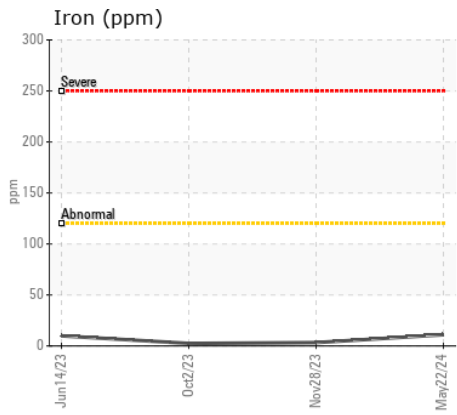
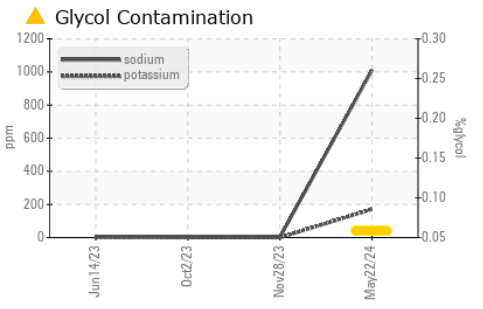
### CONTAMINATION

Test for glycol is positive. There is a moderate concentration of glycol present in the oil.

### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0088763</b>	PC0072582	PC0072675
Sample Date		Client Info		<b>22 May 2024</b>	28 Nov 2023	02 Oct 2023
Machine Age	kms	Client Info		<b>393979</b>	378153	370642
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>120	<b>11</b>	3	2
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>2</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	1	1
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silicon	ppm	ASTM D5185(m)	>25	<b>9</b>	4	9
Potassium	ppm	ASTM D5185(m)	>20	<b>▲ 171</b>	0	0
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	%	ASTM D7922*		<b>▲ 0.064</b>	NEG	NEG
Soot %	%	ASTM D7844*	>4	<b>0.2</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.3</b>	6.6	5.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.7</b>	18.0	17.8
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>158	<b>● 1011</b>	3	2
Boron	ppm	ASTM D5185(m)	250	<b>16</b>	2	2
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>110</b>	56	57
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	450	<b>920</b>	927	929
Calcium	ppm	ASTM D5185(m)	3000	<b>987</b>	1019	1043
Phosphorus	ppm	ASTM D5185(m)	1150	<b>983</b>	994	993
Zinc	ppm	ASTM D5185(m)	1350	<b>1109</b>	1151	1155
Sulfur	ppm	ASTM D5185(m)	4250	<b>2507</b>	2505	2562
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.8</b>	14.3	13.4
Visc @ 40°C	cSt	ASTM D7279(m)	115	<b>92.3</b>	94.3	102
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>12.8</b>	13.3	13.8
Viscosity Index (VI)	Scale	ASTM D2270*	126	<b>135</b>	140	136



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0088763 **Received** : 29 May 2024  
**Lab Number** : 02638350 **Tested** : 29 May 2024  
**Unique Number** : 5787512 **Diagnosed** : 29 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol, 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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