



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>ABNORMAL</b>

Machine Id  
**QC230725MOB2**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 40 (--- GAL)**

## RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

## WEAR

All component wear rates are normal.

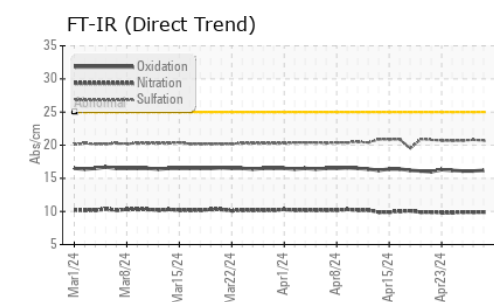
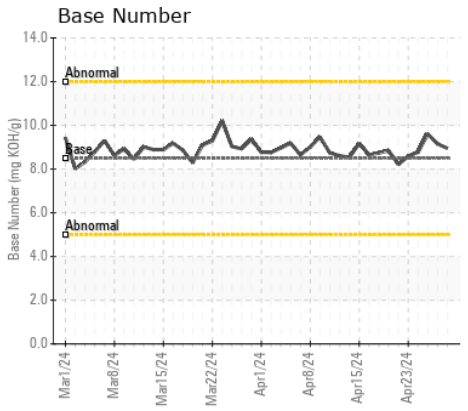
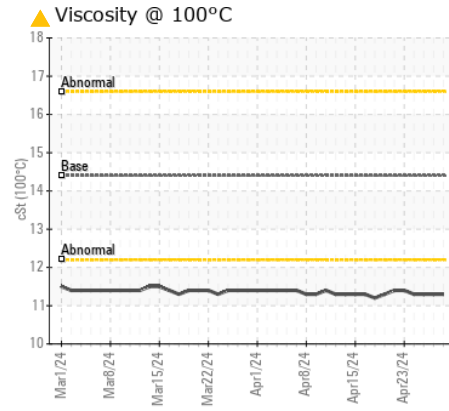
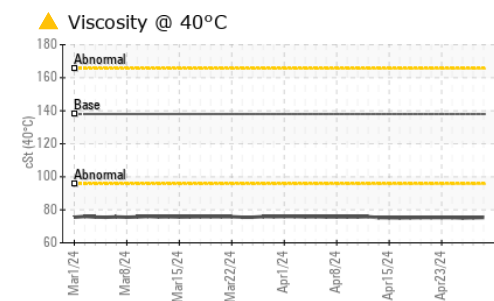
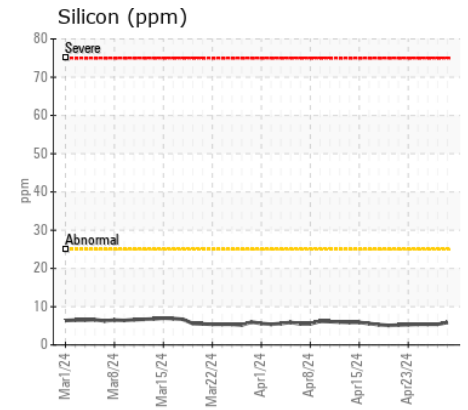
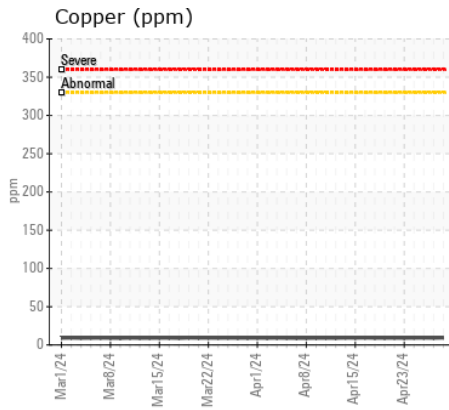
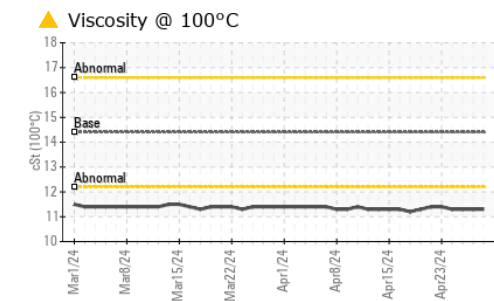
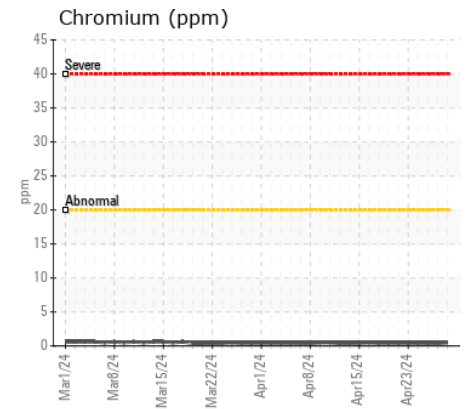
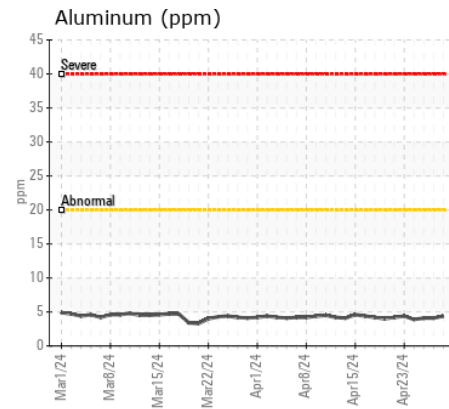
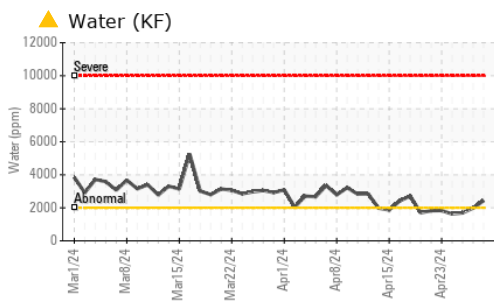
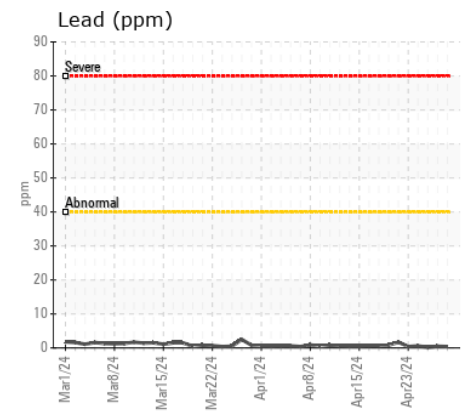
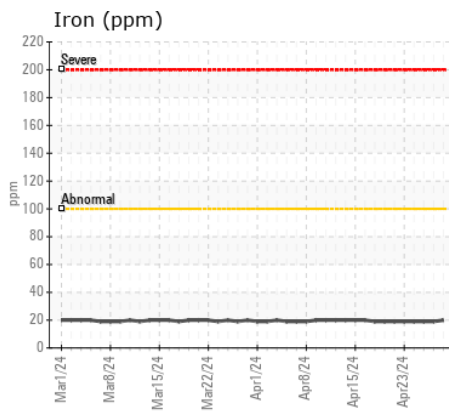
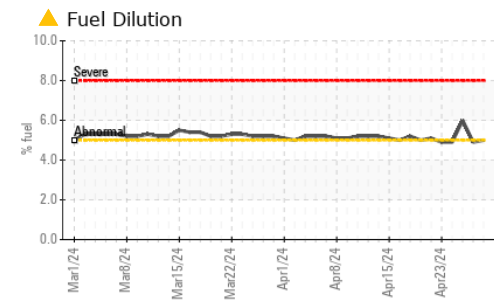
## CONTAMINATION

There is a moderate amount of fuel present in the oil. There is a light concentration of water present in the oil. Tests confirm the presence of fuel in the oil.

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. 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>WC0925457</b>	WC0925454	WC0925453
Sample Date		Client Info		<b>29 Apr 2024</b>	26 Apr 2024	25 Apr 2024
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
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Iron	ppm	ASTM D5185(m)	>100	<b>20</b>	19	19
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>3</b>	3	3
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>4</b>	4	4
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>9</b>	9	9
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
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Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	5	5
Potassium	ppm	ASTM D5185(m)	>20	<b>▲ 15</b>	▲ 14	▲ 14
Fuel	%	ASTM D7593*	>5	<b>▲ 5</b>	▲ 4.9	▲ 6
Water	%	ASTM D6304*	>0.2	<b>▲ 0.243</b>	▲ 0.198	▲ 0.169
ppm Water	ppm	ASTM D6304*	>2000	<b>▲ 2431</b>	▲ 1984	▲ 1695
Glycol	%	ASTM D7922*		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.3</b>	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.9</b>	9.9	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.7</b>	20.8	20.7
Emulsified Water	scalar	Visual*	>0.2	<b>▲ .2%</b>	▲ .2%	▲ .2%
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Sodium	ppm	ASTM D5185(m)	>216	<b>● 64</b>	● 62	● 62
Boron	ppm	ASTM D5185(m)	250	<b>41</b>	33	33
Barium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>48</b>	46	46
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>622</b>	614	621
Calcium	ppm	ASTM D5185(m)	3000	<b>1505</b>	1492	1484
Phosphorus	ppm	ASTM D5185(m)	1150	<b>866</b>	844	853
Zinc	ppm	ASTM D5185(m)	1350	<b>1018</b>	1013	1016
Sulfur	ppm	ASTM D5185(m)	4250	<b>2598</b>	2567	2550
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.2</b>	16.1	16.1
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	<b>8.95</b>	9.15	9.60
Visc @ 40°C	cSt	ASTM D7279(m)	138	<b>▲ 75.3</b>	▲ 75.2	▲ 75.0
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>▲ 11.3</b>	▲ 11.3	▲ 11.3
Viscosity Index (VI)	Scale	ASTM D2270*	102	<b>141</b>	141	142



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **WearCheck Quality Control Sample Results**  
**Sample No.** : WC0925457 **Received** : 29 Apr 2024  
**Lab Number** : 02631841 **Tested** : 01 May 2024  
**Unique Number** : 5772994 **Diagnosed** : 01 May 2024 - Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, Glycol, KF, KV40, PercentFuel, VI ) **Contact:** Dorian Anderson  
 To discuss this sample report, contact Customer Service at 1-800-268-2131. **dorian.anderson@wearcheck.com**  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. **T: (289)291-4652**  
 Validity of results and interpretation are based on the sample and information as supplied. **F: (905)569-8605**