



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

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

**RECOMMENDATION**

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0936555</b>	WC0936554	WC0936551
Sample Date		Client Info		<b>14 May 2024</b>	13 May 2024	10 May 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

**WEAR**

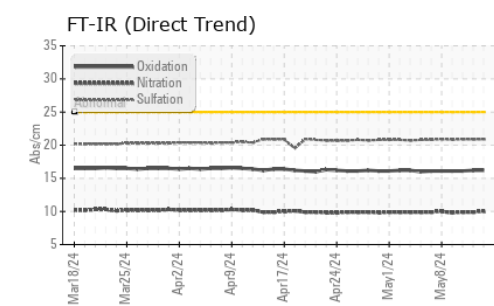
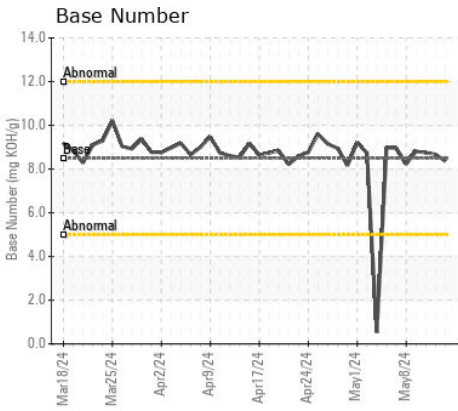
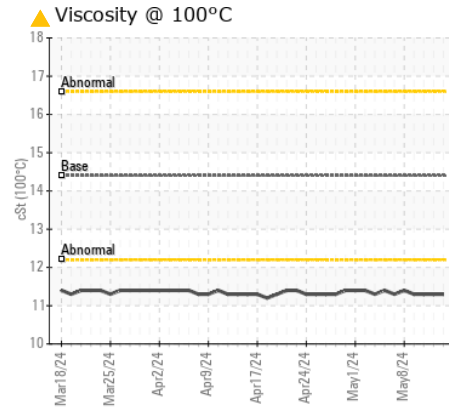
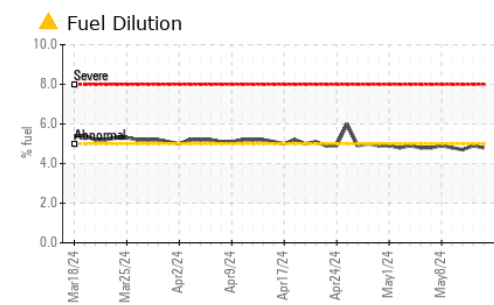
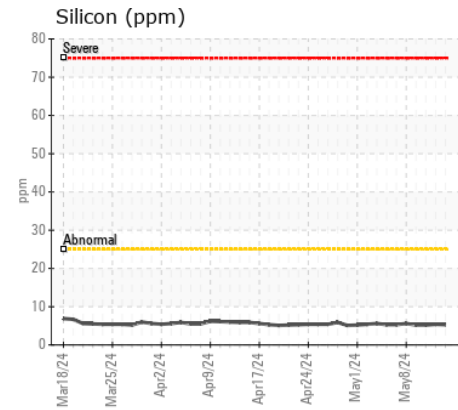
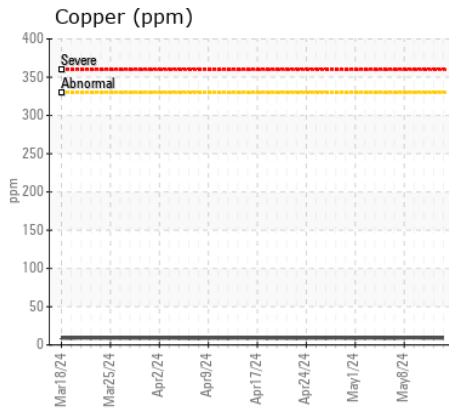
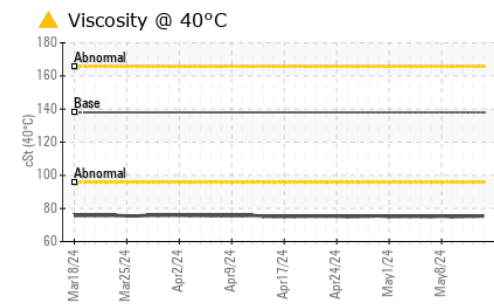
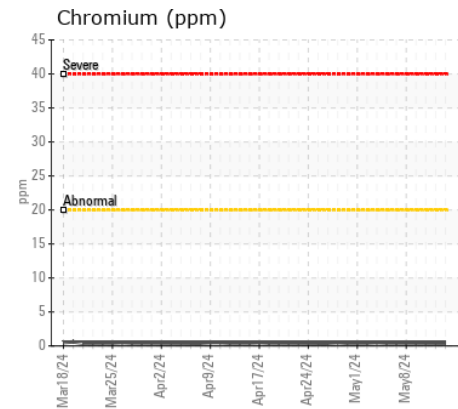
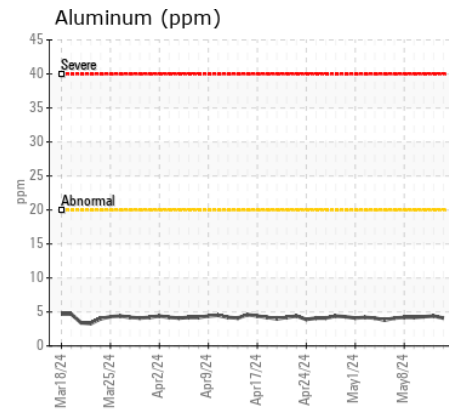
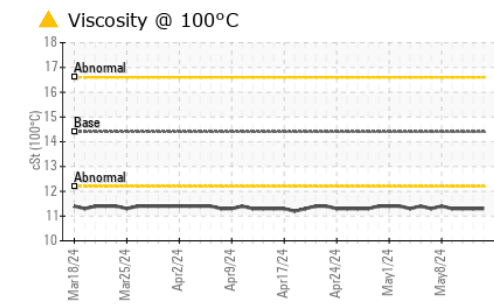
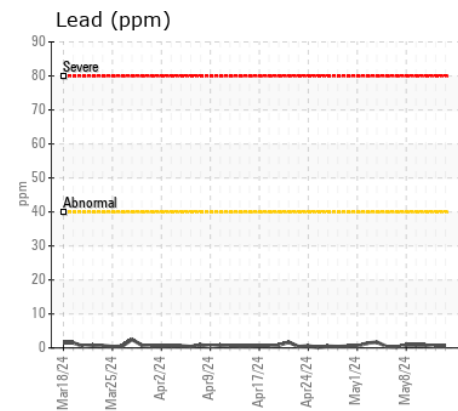
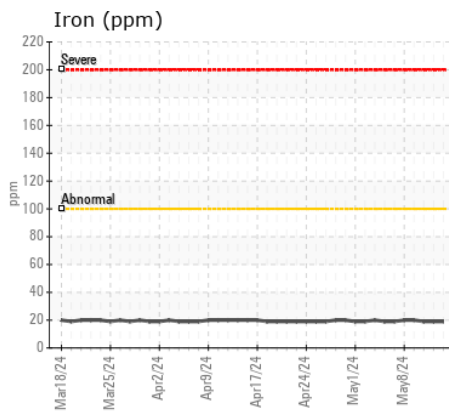
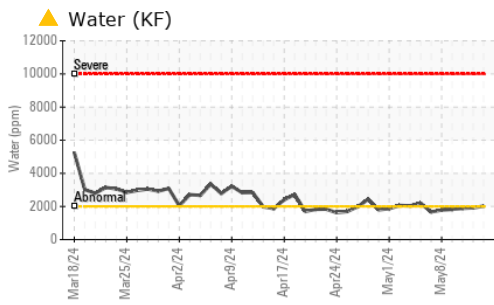
Iron	ppm	ASTM D5185(m)	>100	<b>19</b>	19	19
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>3</b>	3	3
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>4</b>	4	4
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<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

**CONTAMINATION**

Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	5	5
Potassium	ppm	ASTM D5185(m)	>20	<b>▲ 14</b>	▲ 18	▲ 14
Fuel	%	ASTM D7593*	>5	<b>▲ 4.8</b>	▲ 4.9	▲ 4.7
Water	%	ASTM D6304*	>0.2	<b>▲ 0.202</b>	▲ 0.191	▲ 0.188
ppm Water	ppm	ASTM D6304*	>2000	<b>▲ 2025</b>	▲ 1911	▲ 1884
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>10.0</b>	9.9	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.9</b>	20.9	20.9
Emulsified Water	scalar	Visual*	>0.2	<b>▲ .2%</b>	▲ .2%	▲ .2%

**FLUID CONDITION**

Sodium	ppm	ASTM D5185(m)	>216	<b>● 62</b>	● 64	● 62
Boron	ppm	ASTM D5185(m)	250	<b>30</b>	30	30
Barium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>46</b>	47	45
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>609</b>	621	612
Calcium	ppm	ASTM D5185(m)	3000	<b>1466</b>	1488	1486
Phosphorus	ppm	ASTM D5185(m)	1150	<b>847</b>	854	832
Zinc	ppm	ASTM D5185(m)	1350	<b>995</b>	1024	1016
Sulfur	ppm	ASTM D5185(m)	4250	<b>2530</b>	2567	2557
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.2</b>	16.2	16.1
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	<b>8.36</b>	8.67	8.75
Visc @ 40°C	cSt	ASTM D7279(m)	138	<b>▲ 75.4</b>	▲ 75.3	▲ 75.2
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	141



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **WearCheck Quality Control Sample Results**  
**Sample No.** : WC0936555 **Received** : 14 May 2024  
**Lab Number** : 02635268 **Tested** : 15 May 2024  
**Unique Number** : 5776421 **Diagnosed** : 15 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**