

**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL ABNORMAL** 

QC Engine

QC230725MOB2

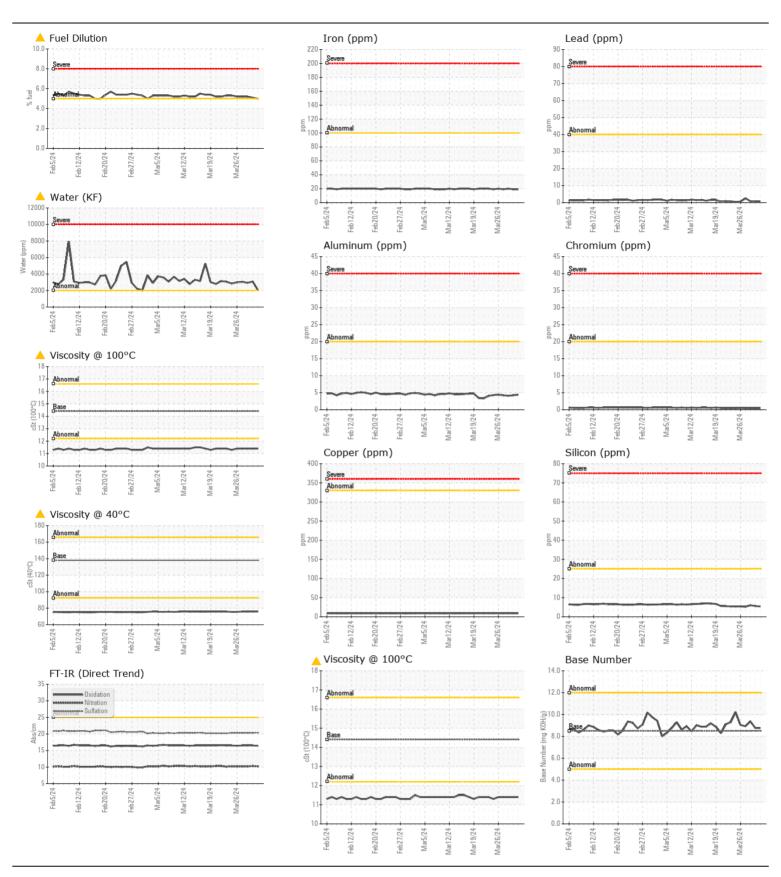
**Diesel Engine** 

DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		WC0925430	WC0925429	WC09126
	Sample Date		Client Info		02 Apr 2024	01 Apr 2024	28 Mar 20
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	ABNORM
WEAR	Iron	ppm	ASTM D5185(m)	>100	19	19	20
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)		3	3	3
	Silver	ppm	ASTM D5185(m)	>3	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>20	4	4	4
	Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
	Copper	ppm	ASTM D5185(m)	>330	9	9	9
	Tin	ppm	ASTM D5185(m)	>15	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	5	6	6
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.	Potassium	ppm	ASTM D5185(m)	>20	<u> </u>	<b>△</b> 17	<u>17</u>
	Fuel	%	ASTM D7593*	>5	<b>4</b> 5	<b>▲</b> 5.1	<u></u> 5.2
	Water	%	ASTM D6304*	>0.2	<b>△</b> 0.204	<b>△</b> 0.308	<u> </u>
	ppm Water	ppm	ASTM D6304*	>2000	<u> </u>	▲ 3088	<u>^</u> 2923
	Glycol	%	ASTM D7922*		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.3	0.3	0.3
	Nitration	Abs/cm	ASTM D7624*	>20	10.2	10.3	10.2
	Sulfation	Abs/.1mm	ASTM D7415*	>30	20.4	20.3	20.3
	Emulsified Water	scalar	Visual*	>0.2	NEG	<u> </u>	▲ .2%
THE CONDITION							

## **FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. Viscosity of sample indicates oil is within SAE 10W30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.





CALA ISO 17025:2017 Accredited

Report Id: QA [WCAMIS] 02625978 (Generated: 04/04/2024 10:50:07) Rev: 1

Laboratory Sample No. Lab Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results : WC0925430

: 02625978 Unique Number : 5759110

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.

Received **Tested** Diagnosed

: 02 Apr 2024 : 04 Apr 2024

: 04 Apr 2024 - Kevin Marson Test Package : MOB 2 ( Additional Tests: Glycol, KF, KV40, PercentFuel, VI )

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CA