

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 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.

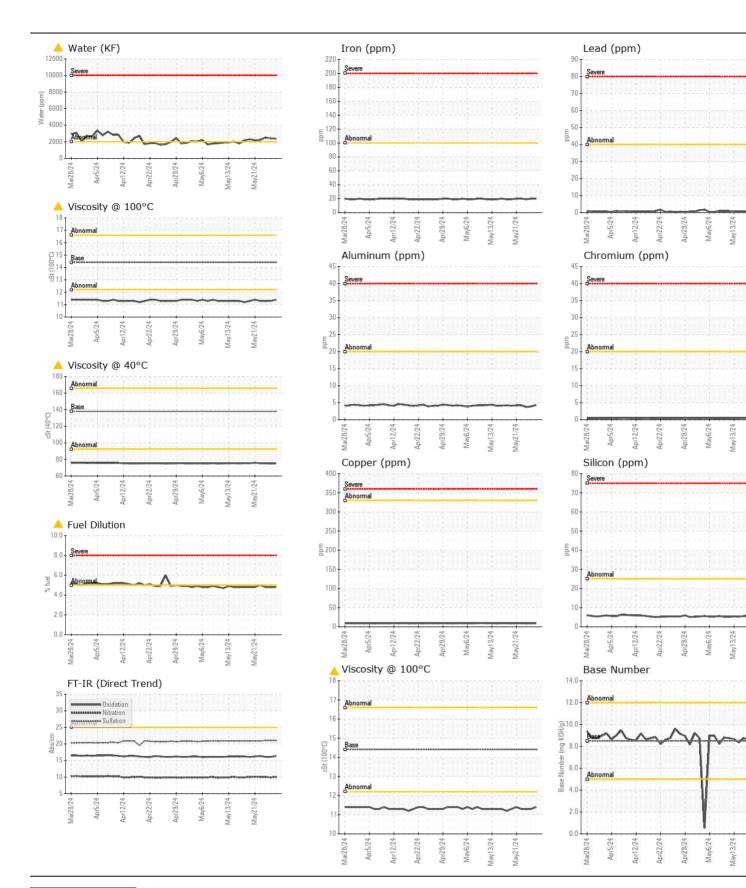
CONTAMINATION

Light fuel dilution occurring. There is a light concentration of water present in the oil. No other contaminants were detected in the oil.

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.

Test	UOM	Method	Limit/Abn	Cı	urrent	History1	History2
Sample Number		Client Info		W	C0936568	WC0936565	WC0936564
Sample Date		Client Info		27	May 2024	24 May 2024	23 May 2024
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/	Ά	N/A	N/A
Filter Changed		Client Info		N/	Ά	N/A	N/A
Sample Status				AE	NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>100		20	20	19
Chromium	ppm	ASTM D5185(m)	>20		<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4		0	0	0
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
Silicon	ppm	ASTM D5185(m)	>25		5	5	5
Potassium	ppm	ASTM D5185(m)	>20		-	▲ 16	<u> </u>
Fuel	%	ASTM D3103(III)	>5		4.8	4.8	4.8
Water	%	ASTM D7333 ASTM D6304*	>0.2		0.235	▲ 0.240	0.251
ppm Water	ppm	ASTM D6304*	>2000			▲ 2401	2516
Glycol	%	ASTM D7922*	2000		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3		0.3	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20		10.0	9.9	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30		21.0	21.0	21.0
Emulsified Water	scalar	Visual*	>0.2		.2%	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>216		64	63	57
Boron	ppm	ASTM D5185(m)	250		37	32	31
Barium	ppm	ASTM D5185(m)	10		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	100		48	47	45
Manganese	ppm	ASTM D5185(m)			<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450		630	623	600
Calcium	ppm	ASTM D5185(m)	3000		1461	1478	1417
Phosphorus	ppm	ASTM D5185(m)	1150		864	843	806
Zinc	ppm	ASTM D5185(m)	1350		1014	1011	971
Sulfur	ppm	ASTM D5185(m)	4250		2583	2553	2459
Oxidation	Abs/.1mm	ASTM D7414*	>25		16.3	16.1	16.1
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5		8.26	8.80	8.66
Visc @ 40°C	cSt	ASTM D7279(m)	138		75.1	▲ 75.0	▲ 75.2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4		11.4	🔺 11.3	11.3
Viscosity Index (VI)	Scale	ASTM D2270*	102		143	142	141



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results CALA Sample No. : WC0936568 Received : 27 May 2024 : 30 May 2024 Lab Number : 02637606 Tested Burlington, ON ISO 17025:2017 : 30 May 2024 - Kevin Marson Accredited Unique Number : 5786768 Diagnosed CA Laboratory Test Package : MOB 2 (Additional Tests: FuelDilution, Glycol, KF, KV40, PercentFuel, VI) Contact: Dorian Anderson dorian.anderson@wearcheck.com To discuss this sample report, contact Customer Service at 1-800-268-2131. T: (289)291-4652 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (905)569-8605 Validity of results and interpretation are based on the sample and information as supplied.

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