

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.

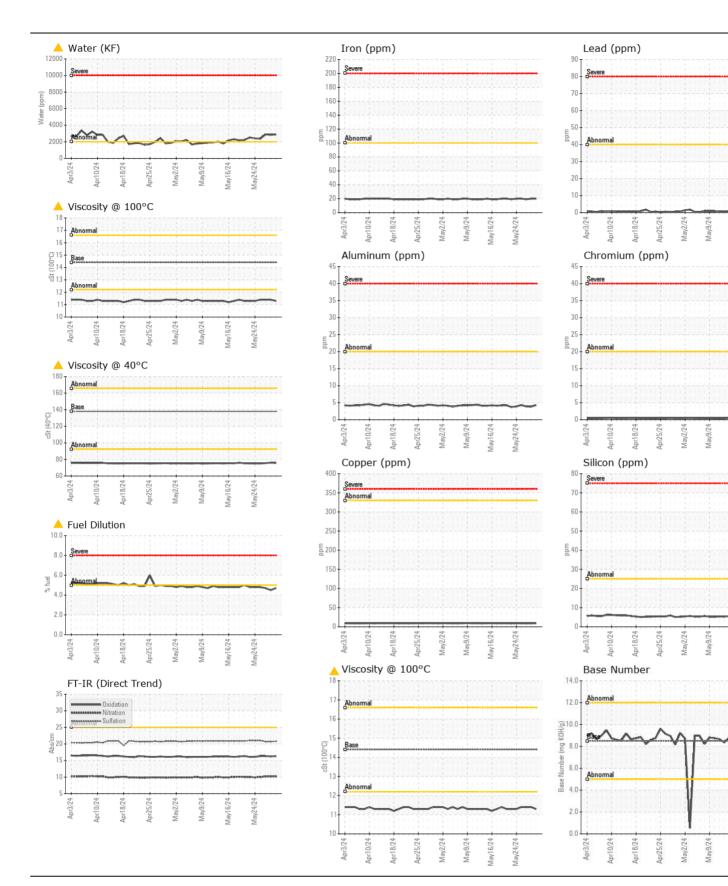
CONTAMINATION

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	His	story1	Hi	story2	
	Sample Number		Client Info		W	WC0936571		VC0936570		WC0936569	
	Sample Date		Client Info		30	30 May 2024		29 May 2024		28 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/A		N//	4	N/	A	
	Filter Changed		Client Info		N/A		N//	4	N/	A	
	Sample Status				ABNORMAL		ABI	NORMAL	ABNORMAL		
				100						10	
	Iron	ppm	ASTM D5185(m)	>100		20		20		19	
	Chromium Nickel	ppm	ASTM D5185(m)	>20		<1		<1		<1 0	
		ppm	ASTM D5185(m)	>4		0		0		-	
	Titanium	ppm	ASTM D5185(m)	. 0		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		6		6		5	
	Potassium	ppm	ASTM D5185(m)	>20		17		17		16	
	Fuel	%	ASTM D7593*	>5		4.7		4.5		4.7	
	Water	%	ASTM D6304*	>0.2		0.288		0.283		0.288	
	ppm Water	ppm	ASTM D6304*	>2000		2884		2836		2889	
	Glycol	%	ASTM D7922*			NEG		NEG		NEG	
	Soot %	%	ASTM D7844*	>3		0.3		0.3		0.3	
	Nitration	Abs/cm	ASTM D7624*	>20		10.2		10.2		10.2	
	Sulfation	Abs/.1mm	ASTM D7415*	>30		20.8		20.7		20.7	
	Emulsified Water	scalar	Visual*	>0.2		NEG		NEG		NEG	
	Sodium	ppm	ASTM D5185(m)	>216		76		77		75	
	Boron	ppm	ASTM D5185(m)	250		36	-	37		32	
	Barium	ppm	ASTM D5185(m)	10		-1		<1		<1	
	Molybdenum	ppm	ASTM D5185(m)	100		47		47		46	
	Manganese	ppm	ASTM D5185(m)	100		4/ <1		<1		<1	
	Magnesium	ppm	ASTM D5185(m)	450		618		621		607	
	Calcium	ppm	ASTM D5185(m)	3000		1493		1476		1446	
	Phosphorus	ppm	ASTM D5185(m)	1150		866		869		830	
	Zinc	ppm	ASTM D5185(m)	1350		1011		1009		990	
	Sulfur	ppm	ASTM D5185(m)	4250		2561		2544		2514	
	Oxidation	Abs/.1mm	ASTM D7414*	>25		16.3		16.2		16.3	
	Base Number (BN)	mg KOH/g	ASTM D2896*	8.5		8.39		8.60		8.19	
	Visc @ 40°C	cSt	ASTM D7279(m)	138		75.6		76.1		75.5	
	Visc @ 100°C	cSt	ASTM D7279(m)	14.4		11.3		11.4		11.4	
	Viscosity Index (VI)	Scale	ASTM D2270*	102		140		141		143	
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Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results CALA Sample No. : WC0936571 Received : 30 May 2024 : 02638804 Lab Number Tested : 03 Jun 2024 Burlington, ON ISO 17025:2017 Accredited : 03 Jun 2024 - Kevin Marson Unique Number : 5787966 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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