

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.

All component wear rates are normal.

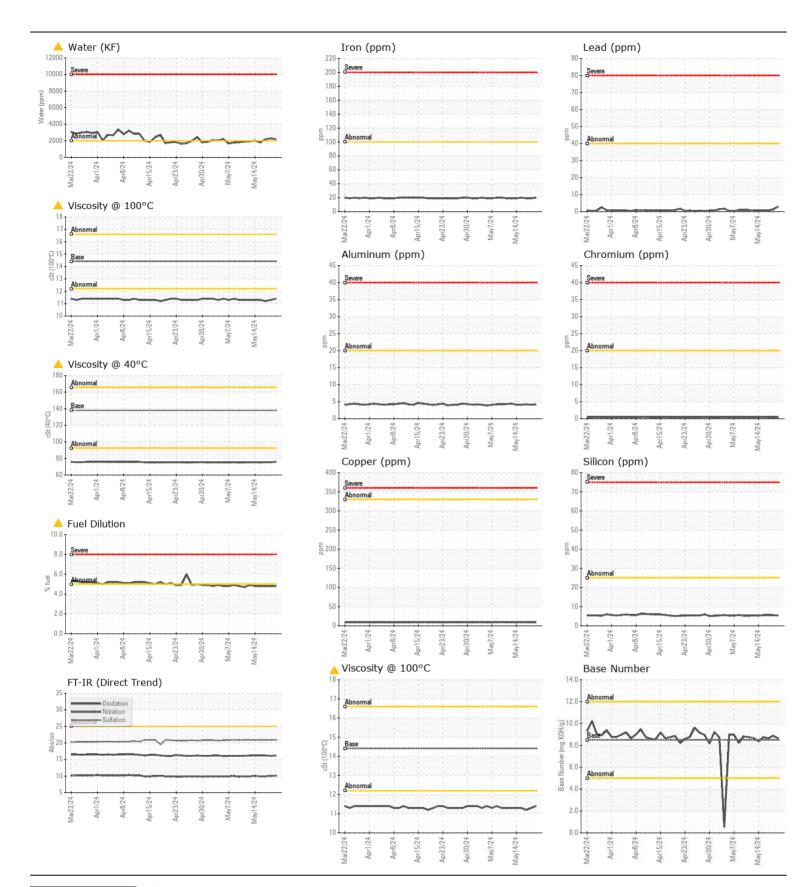
CONTAMINATION

Light fuel dilution occurring. There is a light concentration of water present 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	Cı	urrent	Hi	story1	Hi	story2
	Sample Number		Client Info		WC0936562		W	C0936558 W		0936557
	Sample Date		Client Info		21	May 2024	17	May 2024	16 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/	Α	N/	A	N/	A
	Filter Changed		Client Info		N/A		N/	A	N/A	
	Sample Status				AE	ABNORMAL		NORMAL	ABNORMAL	
				100				10		10
	Iron Obversives	ppm	ASTM D5185(m)	>100		20		19		19
	Chromium	ppm	ASTM D5185(m)	>20		<1		<1		<1
	Nickel	ppm	ASTM D5185(m)	>4		0		0		<1
	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		3		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		6		6
	Potassium	ppm	ASTM D5185(m)	>20		15		14		15
	Fuel	%	ASTM D7593*	>5		4.8		4.8		4.8
	Water	%	ASTM D6304*	>0.2		0.218		0.229		0.217
	ppm Water	ppm	ASTM D6304*	>2000		2187		2296		2176
	Glycol	%	ASTM D7922*			NEG		NEG		NEG
	Soot %	%	ASTM D7844*	>3		0.3		0.3		0.3
	Nitration	Abs/cm	ASTM D7624*	>20		10.1		10.0		9.9
	Sulfation	Abs/.1mm	ASTM D7415*	>30		20.9		20.9		20.9
	Emulsified Water	scalar	Visual*	>0.2		.2%		.2%		NEG
	Sodium	ppm	ASTM D5185(m)	>216		67	•	64		63
	Boron	ppm	ASTM D5185(m)	250		35		33		34
	Barium	ppm	ASTM D5185(m)	10		<1		<1		<1
	Molybdenum	ppm	ASTM D5185(m)	100		47		47		46
	Manganese	ppm	ASTM D5185(m)	450		<1		<1		<1
	Magnesium Calcium	ppm	ASTM D5185(m)	450		611		603		601
		ppm	ASTM D5185(m)	3000		1470		1454		1448
	Phosphorus	ppm	ASTM D5185(m)	1150		848		841		841
	Zinc	ppm	ASTM D5185(m)	1350		1012		987		990
	Sulfur	ppm	ASTM D5185(m)	4250		2535		2517		2542
	Oxidation	Abs/.1mm	ASTM D7414* ASTM D2896*	>25		16.2		16.1		16.2
	Base Number (BN) Visc @ 40°C	mg KOH/g		8.5		8.63		8.88		8.64
	-	cSt	ASTM D7279(m)	138		76.0		75.3		75.5
	Visc @ 100°C	cSt Scalo	ASTM D7279(m)	14.4		11.4		11.3		11.2
	Viscosity Index (VI)	Scale	ASTM D2270*	102		141		141		138



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results CALA Sample No. : WC0936562 Received : 21 May 2024 : 02636598 : 22 May 2024 Lab Number Tested Burlington, ON ISO 17025:2017 : 22 May 2024 - Kevin Marson Accredited Unique Number : 5785760 Diagnosed CA Laboratory 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 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.