

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

## RECOMMENDATION

No corrective action is recommended at this time. Please specify the component make and model with your next sample.

WEAR
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All component wear rates are normal.

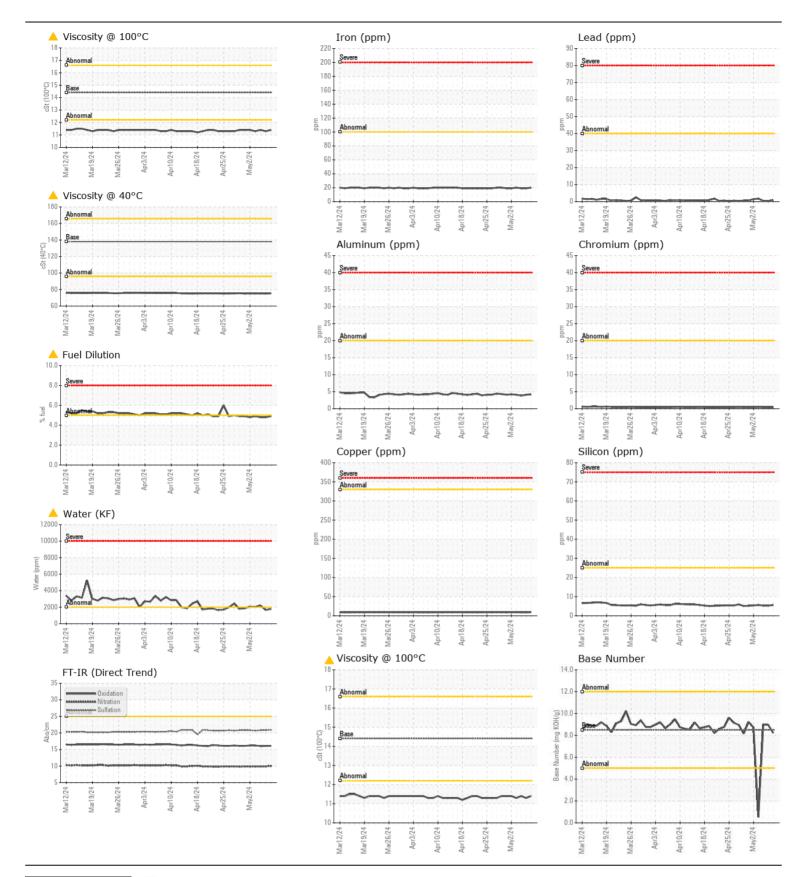
## **CONTAMINATION**

Light fuel dilution occurring. There is a trace of moisture 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.

٦	Fest	UOM	Method	Limit/Abn	Cı	urrent	Histo	ory1	His	story2
5	Sample Number		Client Info		W	C0936549	WC0	936548	WC0936547	
S	Sample Date		Client Info		08	May 2024	07 M	ay 2024	06 May 2024	
N	Machine Age	hrs	Client Info		0	-	0		0	
C	Dil Age	hrs	Client Info		0		0		0	
F	Filter Age	hrs	Client Info		0		0		0	
C	Dil Changed		Client Info		N/	Ά	N/A		N/A	
F	Filter Changed		Client Info		N/	Ά	N/A		N/	A
S	Sample Status				AE	BNORMAL	ABN	ORMAL	ABNORMAL	
	ron	ppm	ASTM D5185(m)	>100		20	1			19
	Chromium	ppm	ASTM D5185(m)	>20		<1	<			<1
	Nickel	ppm	ASTM D5185(m)	>4		<1	<			0
	Fitanium	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
	_ead	ppm	ASTM D5185(m)	>40		<1	<			<1
	Copper	ppm	ASTM D5185(m)	>330		9	9			9
	Γin ,	ppm	ASTM D5185(m)	>15		0	0			0
Vanadium		ppm	ASTM D5185(m)			0	0			0
S	Silicon	ppm	ASTM D5185(m)	>25		6	5			5
F	Potassium	ppm	ASTM D5185(m)	>20		14	▲ 1·	4		14
F	-uel	%	ASTM D7593*	>5		4.9	4	.8		4.8
1	Nater	%	ASTM D6304*	>0.2		0.178	<b></b> 0	.166		0.219
r	opm Water	ppm	ASTM D6304*	>2000		1781	<b>1</b>	669		2198
C	Glycol	%	ASTM D7922*			NEG	N	IEG		NEG
S	Soot %	%	ASTM D7844*	>3		0.3	0	.3		0.3
١	Vitration	Abs/cm	ASTM D7624*	>20		10.0	9	.9		9.9
S	Sulfation	Abs/.1mm	ASTM D7415*	>30		20.9	2	0.8		20.8
E	Emulsified Water	scalar	Visual*	>0.2		.2%	<b>A</b> .2	2%		.2%
	Sodium	ppm	ASTM D5185(m)	>216		62	6		•	60
	Boron	ppm	ASTM D5185(m)	250		36	2			33
	Barium	ppm	ASTM D5185(m)	10		<1	<			<1
	Nolybdenum	ppm	ASTM D5185(m)	100		47	4			46
	Manganese	ppm	ASTM D5185(m)	450		<1	<			<1
	Magnesium	ppm	ASTM D5185(m)	450		629		20		611
	Calcium	ppm	ASTM D5185(m)	3000		1510		487		1457
	Phosphorus	ppm	ASTM D5185(m)	1150		858		32		847
	Zinc	ppm	ASTM D5185(m)	1350		1020		002		995
	Sulfur	ppm	ASTM D5185(m)	4250		2612		497		2532
	Dxidation	Abs/.1mm	ASTM D7414*	>25		16.1		6.1		16.0
	Base Number (BN)	mg KOH/g	ASTM D2896*	8.5		8.22		.96		8.98
	/isc @ 40°C	cSt	ASTM D7279(m)	138		75.4		5.0		75.2
	/isc @ 100°C	cSt	ASTM D7279(m)	14.4		11.4		1.3		11.4
1	/iscosity Index (VI)	Scale	ASTM D2270*	102		143	1	42		143



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results CALA Sample No. : WC0936549 Received :08 May 2024 Lab Number : 02633998 : 09 May 2024 Tested Burlington, ON ISO 17025:2017 : 09 May 2024 - Kevin Marson Accredited Unique Number : 5775151 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.