

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

All component wear rates are normal.

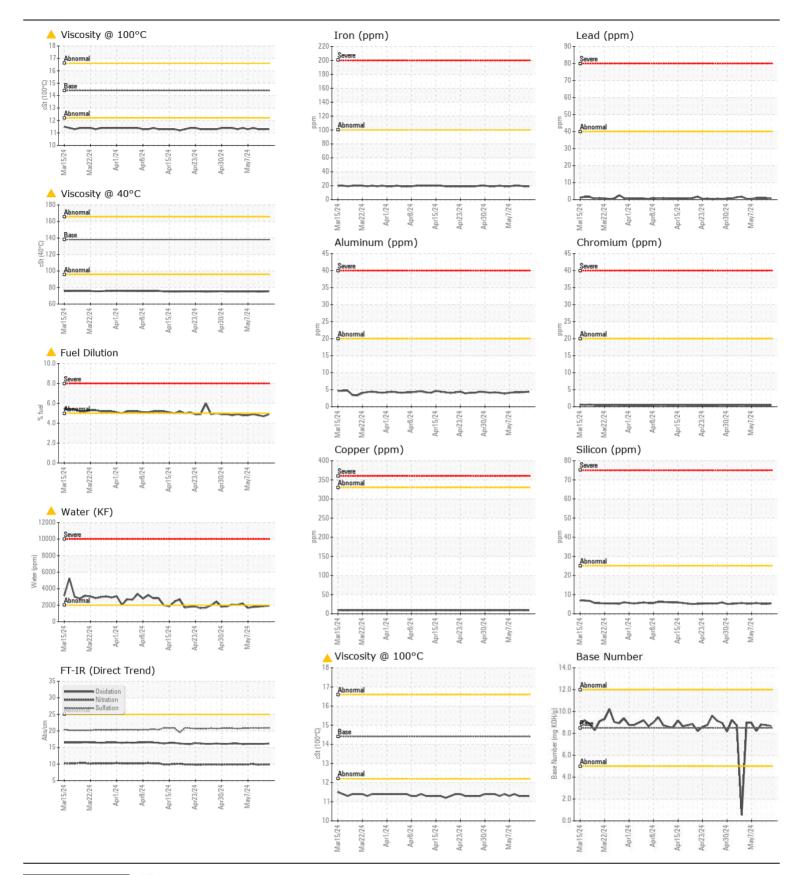
CONTAMINATION

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.

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Test	UOM	Method	Limit/Abn	Cı	urrent	His	story1	Hi	story2
Sample Number		Client Info		W	C0936554	WC0936551 WC0936		C0936550	
Sample Date		Client Info		13	May 2024	10	10 May 2024 09 May 2		May 2024
Machine Age	hrs	Client Info		0		0	0 0		
Oil Age	hrs	Client Info		0		0	0 0		
Filter Age	hrs	Client Info		0		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	NORMAL	AB	ABNORMAL ABNORMA		NORMAL
							40		
Iron	ppm	ASTM D5185(m)	>100		19		19		20
Chromium	ppm	ASTM D5185(m)	>20		<1		<1		<1
Nickel	ppm	ASTM D5185(m)	>4		<1		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		10
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		18		14		15
Fuel	%	ASTM D7593*	>5		4.9		4.7		4.8
Water	%	ASTM D6304*	>0.2		0.191		0.188		0.182
ppm Water	ppm	ASTM D6304*	>2000		1911		1884		1822
Glycol	%	ASTM D7922*			NEG		NEG		NEG
Soot %	%	ASTM D7844*	>3		0.3		0.3		0.3
Nitration	Abs/cm	ASTM D7624*	>20		9.9		9.9		9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30		20.9		20.9		20.8
Emulsified Water	scalar	Visual*	>0.2		.2%		.2%		.2%
Sodium	ppm	ASTM D5185(m)	>216	•	64	$\bullet$	62	•	60
Boron	ppm	ASTM D5185(m)	250		30		30		33
Barium	ppm	ASTM D5185(m)	10		<1		<1		<1
Molybdenum	ppm	ASTM D5185(m)	100		47		45		46
Manganese	ppm	ASTM D5185(m)			<1		<1		<1
Magnesium	ppm	ASTM D5185(m)	450		621		612		622
Calcium	ppm	ASTM D5185(m)	3000		1488		1486		1491
Phosphorus	ppm	ASTM D5185(m)	1150		854		832		856
Zinc	ppm	ASTM D5185(m)	1350		1024	_	1016		1007
Sulfur	ppm	ASTM D5185(m)	4250		2567		2557		2607
Oxidation	Abs/.1mm	ASTM D7414*	>25		16.2	_	16.1		16.1
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5		8.67		8.75		8.81
Visc @ 40°C	cSt	ASTM D7279(m)	138		75.3	_	75.2		74.9
Visc @ 100°C	cSt	ASTM D7279(m)	14.4		11.3		11.3		11.3
Viscosity Index (VI)	Scale	ASTM D2270*	102		141		141		142



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results CALA 回价 Sample No. : WC0936554 Received : 13 May 2024 Lab Number : 14 May 2024 : 02634878 Tested Burlington, ON ISO 17025:2017 Accredited : 14 May 2024 - Kevin Marson Unique Number : 5776031 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.