

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.

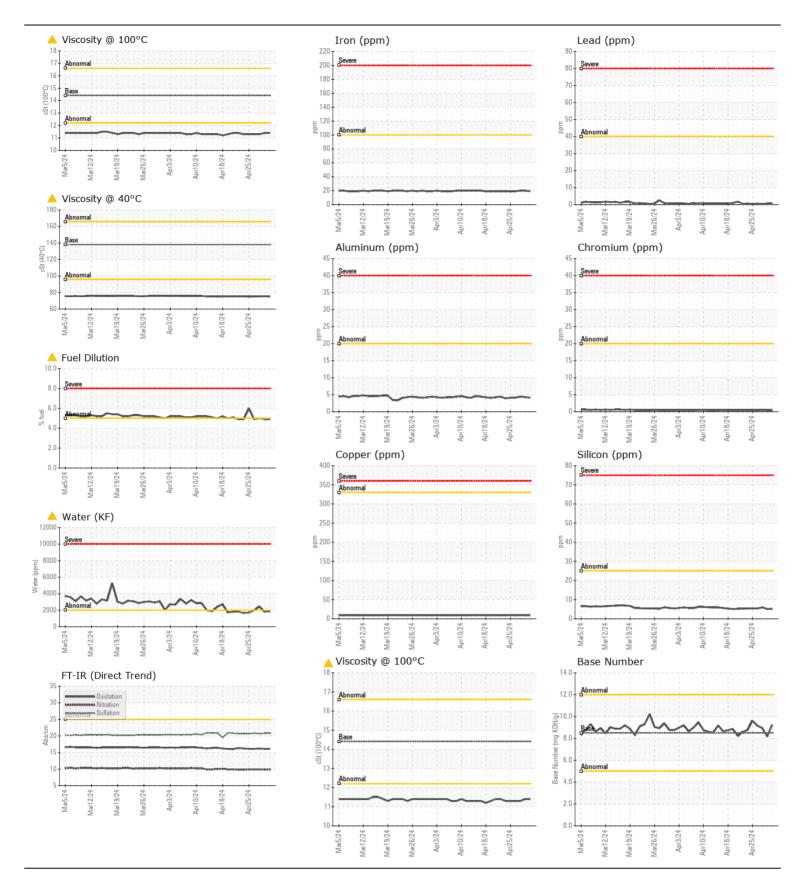
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Cı	urrent	History1	History2
Sample Number		Client Info		w	C0936542	WC0925458	WC0925457
Sample Date		Client Info		01	May 2024	30 Apr 2024	29 Apr 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	NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>100		19	20	20
Chromium	ppm	ASTM D5185(m)	>20		<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4		0	<1	<1
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	nnm	ASTM D5185(m)	>25		5	5	6
Potassium	ppm	ASTM D5185(m)	>20		-	▲ 14	▲ 15
Fuel	ppm %	ASTM D5165(III) ASTM D7593*	>20		4.9	4.9	▲ 15 ▲ 5
Water	%	ASTM D7593 ASTM D6304*	>0.2		-	▲ 4.9 ▲ 0.179	▲ 0.243
		ASTM D6304 ASTM D6304*	>0.2	_	1863	▲ 1795	▲ 2431
ppm Water Glycol	ppm %	ASTM D0304 ASTM D7922*	>2000		NEG	NEG	NEG
Soot %	%	ASTM D7922 ASTM D7844*	>3		0.3	0.3	0.3
Nitration	Abs/cm	ASTM D7644 ASTM D7624*	>20		0.3 9.9	9.8	9.9
Sulfation	Abs/.1mm	ASTM D7624 ASTM D7415*	>20		9.9 20.8	20.8	9.9 20.7
Emulsified Water	scalar	Visual*	>0.2		20.8 .2%	NEG	<u> </u>
	Scalal	visual	>0.2		.270	NEG	.270
Sodium	ppm	ASTM D5185(m)	>216		61	61	64
Boron	ppm	ASTM D5185(m)	250		32	31	41
Barium	ppm	ASTM D5185(m)	10		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	100		47	47	48
Manganese	ppm	ASTM D5185(m)			<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450		619	619	622
Calcium	ppm	ASTM D5185(m)	3000		1450	1500	1505
Phosphorus	ppm	ASTM D5185(m)	1150		851	867	866
Zinc	ppm	ASTM D5185(m)	1350		1005	1020	1018
Sulfur	ppm	ASTM D5185(m)	4250		2575	2541	2598
Oxidation	Abs/.1mm	ASTM D7414*	>25		16.1	16.1	16.2
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5		9.21	8.16	8.95
Visc @ 40°C	cSt	ASTM D7279(m)	138		75.1	▲ 75.5	▲ 75.3
Visc @ 100°C	cSt	ASTM D7279(m)	14.4		11.4	▲ 11.4	1 1.3
Viscosity Index (VI)	Scale	ASTM D2270*	102		143	143	141
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Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results CALA Sample No. : WC0936542 Received :01 May 2024 Lab Number : 02632468 : 02 May 2024 Tested Burlington, ON ISO 17025:2017 : 02 May 2024 - Kevin Marson Accredited Unique Number : 5773621 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.