

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.

|--|

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	Cι	urrent	History1	History2
Sample Number		Client Info		w	C0936550	WC0936549	WC0936548
Sample Date		Client Info		09	May 2024	08 May 2024	07 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				AB	NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>100		20	20	19
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		10	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	5
Potassium	ppm	ASTM D5185(m)	>20		15	<u> </u>	<u> </u>
Fuel	%	ASTM D7593*	>5		4.8	4.9	4.8
Water	%	ASTM D6304*	>0.2		0.182	▲ 0.178	▲ 0.166
ppm Water	ppm	ASTM D6304*	>2000		1822	A 1781	A 1669
Glycol	%	ASTM D7922*			NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3		0.3	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20		9.8	10.0	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30		20.8	20.9	20.8
Emulsified Water	scalar	Visual*	>0.2		.2%	.2%	.2%
Sodium	ppm	ASTM D5185(m)	>216		60	62	63
Boron	ppm	ASTM D5185(m)	250		33	36	29
Barium	ppm	ASTM D5185(m)	10		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	100		46	47	47
Manganese	ppm	ASTM D5185(m)			<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450		622	629	620
Calcium	ppm	ASTM D5185(m)	3000		1491	1510	1487
Phosphorus	ppm	ASTM D5185(m)	1150		856	858	832
Zinc	ppm	ASTM D5185(m)	1350		1007	1020	1002
Sulfur	ppm	ASTM D5185(m)	4250		2607	2612	2497
Oxidation	Abs/.1mm	ASTM D7414*	>25		16.1	16.1	16.1
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5		8.81	8.22	8.96
Visc @ 40°C	cSt	ASTM D7279(m)	138		74.9	▲ 75.4	▲ 75.0
Visc @ 100°C	cSt	ASTM D7279(m)	14.4		11.3	▲ 11.4	▲ 11.3
Viscosity Index (VI)	Scale	ASTM D2270*	102		142	143	142



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results CALA Sample No. : WC0936550 Received :09 May 2024 Lab Number : 10 May 2024 : 02634242 Tested Burlington, ON ISO 17025:2017 : 10 May 2024 - Kevin Marson Accredited Unique Number : 5775395 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.