

Machine Id QC230725MOB2 Component Diesel Engine Fluid 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.

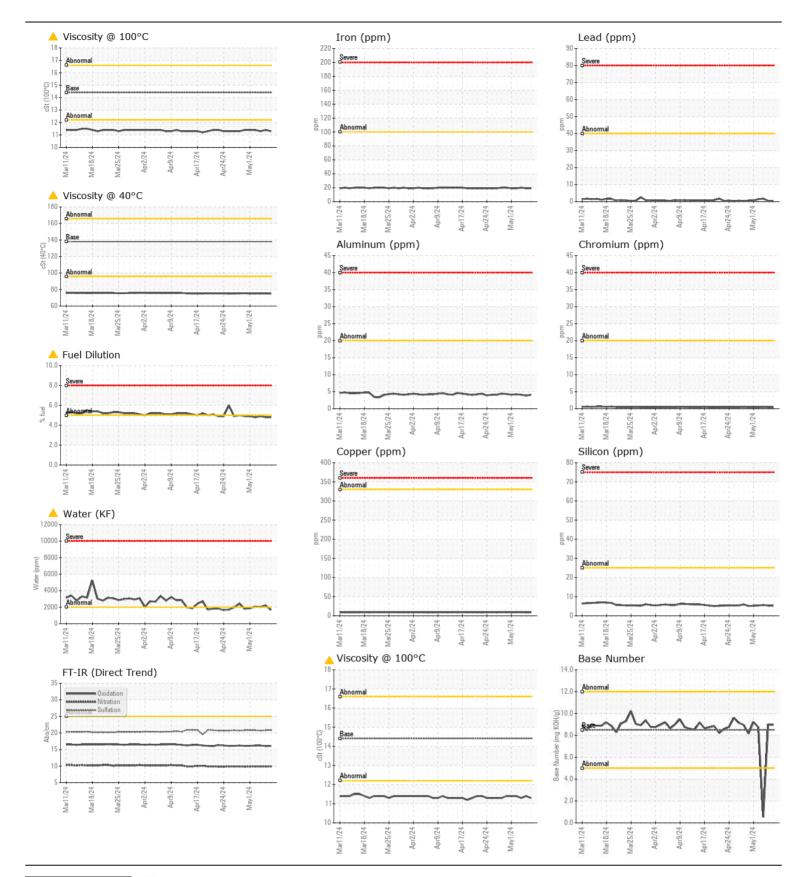
	Test	UOM	Method	Limit/Abn	Current	ŀ	listory1	Hi	story2	
	Sample Number		Client Info		WC09365	18 V	VC0936547	WC0936544		
	Sample Date		Client Info		07 May 20	24 0	06 May 2024		03 May 2024	
	Machine Age	hrs	Client Info		0	0	0		0	
	Oil Age	hrs	Client Info		0	0		0		
	Filter Age	hrs	Client Info		0	0	0		0	
	Oil Changed		Client Info		N/A	Ν	J/A	N/A		
	Filter Changed		Client Info		N/A		J/A	A N/A		
	Sample Status				ABNORM	AL A	BNORMAL	SEVERE		
	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		<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		2	
	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		5		6	
	Potassium	ppm	ASTM D5185(m)	>20	<u> </u>		14		15	
	Fuel	%	ASTM D7593*	>5	4.8		4.8	^	4.9	
	Water	%	ASTM D6304*	>0.2	A 0.166		0.219		0.203	
	ppm Water	ppm	ASTM D6304*	>2000	A 1669	_	2198		2035	
	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		9.9	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8		20.8		20.7	
	Emulsified Water	scalar	Visual*	>0.2	2%		.2%	<u> </u>	.2%	
	Sodium	ppm	ASTM D5185(m)	>216	63		60		64	
	Boron	ppm	ASTM D5185(m)	250	29		33		32	
	Barium	ppm	ASTM D5185(m)	10	<1		<1		<1	
	Molybdenum	ppm	ASTM D5185(m)	100	47		46		48	
	Manganese	ppm	ASTM D5185(m)		<1		<1		<1	
	Magnesium	ppm	ASTM D5185(m)	450	620		611		633	
	Calcium	ppm	ASTM D5185(m)	3000	1487		1457		1487	
	Phosphorus	ppm	ASTM D5185(m)	1150	832		847		861	
	Zinc	ppm	ASTM D5185(m)	1350	1002		995		1014	
	Sulfur	ppm	ASTM D5185(m)	4250	2497		2532		2577	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	16.1		16.0		16.2	
	Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	8.96		8.98		0.536	
	Visc @ 40°C	cSt	ASTM D7279(m)	138	A 75.0		75.2		75.2	
	Visc @ 100°C	cSt	ASTM D7279(m)	14.4	🔺 11.3		11.4		11.3	
	Vicessity Index (VII)	Coolo		100	1 4 0		140		- 4 -	

Viscosity Index (VI) Scale ASTM D2270* 102

141

143

142



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results CALA Sample No. : WC0936548 Received :07 May 2024 :08 May 2024 Lab Number : 02633834 Tested Burlington, ON ISO 17025:2017 : 08 May 2024 - Kevin Marson Accredited Unique Number : 5774987 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.