WEAR CONTAMINATION FLUID CONDITION

NORMAL
ABNORMAL
ABNORMAL

Machine Id

## QC230725MOB2

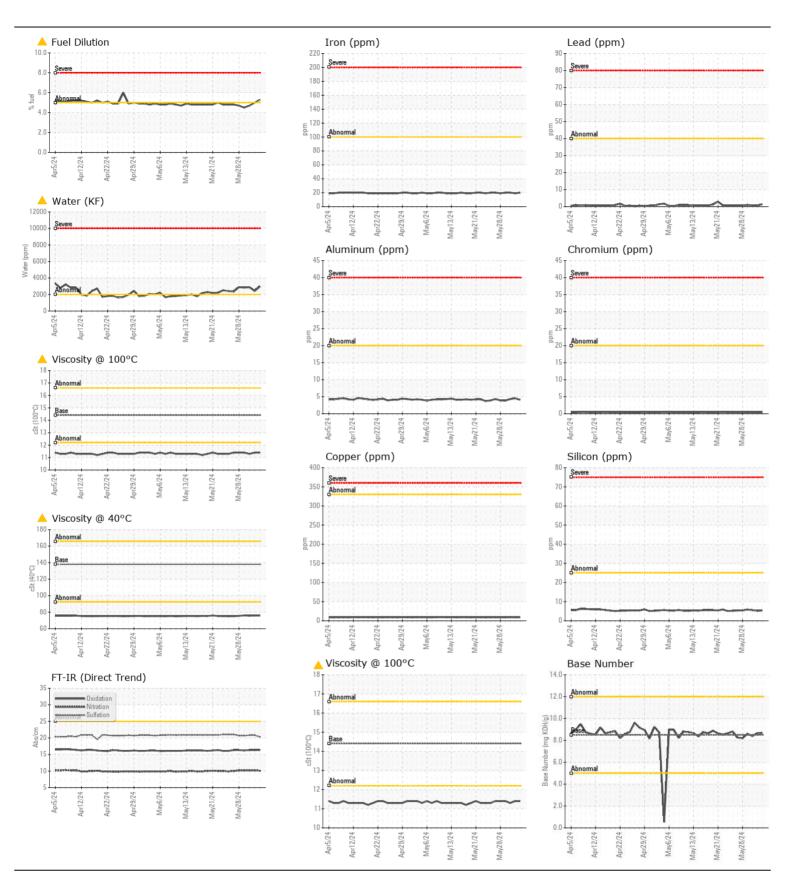
DECOMMEND A TION	<b>-</b> .				()		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0948131	WC0936572	WC093657
	Sample Date	la con	Client Info		03 Jun 2024	-	30 May 202
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age Oil Changed	hrs	Client Info		0 N/A	0 N/A	N/A
	Filter Changed		Client Info		N/A	N/A N/A	N/A
	Sample Status		Ciletit iiiio		ABNORMAL	ABNORMAL	ABNORMA
<u></u>						ADINOTIVIAL	
WEAR	Iron	ppm	ASTM D5185(m)	>100	20	19	20
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>4	0	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)		9	9	9
	Tin	ppm	ASTM D5185(m)	>15	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	5	5	6
There is a moderate amount of fuel present in the oil. There is a light concentration of water present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	. ,	>20	<b>1</b> 6	<u> </u>	<b>1</b> 7
	Fuel	%	ASTM D7593*	>5	<b>5.3</b>	<u> </u>	<b>4.7</b>
	Water	%	ASTM D6304*	>0.2	<b>△</b> 0.298	▲ 0.241	△ 0.288
	ppm Water	ppm	ASTM D6304*	>2000	<b>2988</b>	<u></u> 2420	<b>2884</b>
	Glycol	%	ASTM D7922*		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.3	0.3	0.3
	Nitration	Abs/cm	ASTM D7624*	>20	10.1	10.2	10.2
	Sulfation	Abs/.1mm	ASTM D7415*	>30	20.3	20.8	20.8
	Emulsified Water	scalar	Visual*	>0.2	NEG	<u> </u>	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>216	<b>7</b> 4	74	76
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. The oil is no longer serviceable due to the presence of contaminants.	Boron		ASTM D5185(m)		40	34	36
	Barium	ppm	ASTM D5185(m)		<1	<1	<1
	Molybdenum	ppm	ASTM D5185(m)		47	46	47
	Manganese	ppm	ASTM D5185(m)		<1	<1	<1
	Magnesium	ppm	ASTM D5185(m)	450	608	599	618
	Calcium	ppm	ASTM D5185(m)	3000	1476	1465	1493
	Phosphorus	ppm	ASTM D5185(m)	1150	849	815	866
	Zinc	ppm	ASTM D5185(m)	1350	994	1005	1011
	Sulfur	ppm	ASTM D5185(m)	4250	2537	2527	2561
	Oxidation	Abs/.1mm	ASTM D7414*	>25	16.3	16.3	16.3
	Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	8.69	8.63	8.39
		- 04	AOTA D7070()	100	A 75 0	A 7F 0	A 7F C
	Visc @ 40°C	cSt	ASTM D7279(m)	138	<b>75.8</b>	<u></u> 75.9	<u></u> 75.6
	Visc @ 40°C Visc @ 100°C	cSt	ASTM D7279(m) ASTM D7279(m)	14.4	△ 75.8 △ 11.4	▲ 11.4	△ 11.3

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Viscosity Index (VI) Scale ASTM D2270\* 102

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CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results : WC0948131

: 02639331 Unique Number : 5788493 Test Package : MOB 2 ( Additional Tests: Glycol, KF, KV40, PercentFuel, VI )

Received **Tested** Diagnosed

: 03 Jun 2024 : 04 Jun 2024

: 04 Jun 2024 - Kevin Marson

Burlington, ON CA

Contact: Dorian Anderson dorian.anderson@wearcheck.com

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