

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

Abner Gap 1

Component -Natural Gas Engine Fluid

CITGO PACEMAKER GAS ENGIN 1700 SERIES 40W (50 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

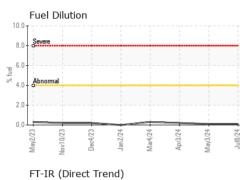
Fluid Condition

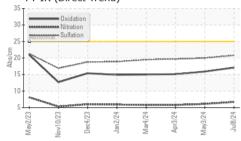
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

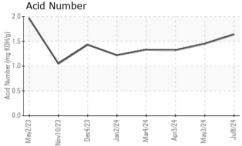
Sample Date Client Info 08 Jul 2024 03 May 2024 03 Apr 2024 Machine Age hrs Client Info 142046 140475 139792 Oil Age Client Info 142046 0 0 0 Oil Changed Client Info Not Changd Not Changd Not Changd Not Changd Sample Status Client Info Not Changd Not Changd Not Changd Nort Changd CONTAMINATION method imit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM 05165m >2 0 <1 <1 Nickel ppm ASTM 05165m >3 0 0 0 Itanium ppm ASTM 05165m >3 0 1 2 Copper ppm ASTM 05165m 3 2 2 1 <th>SAMPLE INFORM</th> <th>MATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
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Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG Wear METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 5 6 5 Chromium ppm ASTM D5185m >2 0 <1 <1 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >3 2 3 2 Tin ppm ASTM D5185m 3 0 <1 2 Vanadium ppm ASTM D5185m 0 <1 <1 ADDITIVES method limit/base current history1 history2	Oil Age	hrs	Client Info		142046	0	0
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG Water WC Method >0.1 NEG NEG NEG Wear ppm ASTM 05185m >50 5 6 5 Chromium ppm ASTM 05185m >4 0 <1 <1 Nickel ppm ASTM 05185m >2 0 <1 <1 Nickel ppm ASTM 05185m >3 0 0 0 Aluminum ppm ASTM 05185m >9 2 <1 1 Lead ppm ASTM 05185m >3 2 3 2 1 1 1 2 2 3 2 1 1 1 2 2 3 2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 <	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
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Chromium ppm ASTM D5185m >4 0 <1	WEAR METAL	S	method	limit/base	current	history1	history2
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Titanium ppm ASTM D5185m 0 <1	Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 2 <1	Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum ppm ASTM D5185m >9 2 <1	Titanium	ppm	ASTM D5185m		0	<1	<1
Lead ppm ASTM D5185m >30 3 5 4 Copper ppm ASTM D5185m >35 2 3 2 Tin ppm ASTM D5185m >4 0 1 2 Vanadium ppm ASTM D5185m 0 <1 <1 Cadmium ppm ASTM D5185m 0 <1 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 0 0 0 Barium ppm ASTM D5185m 2 2 2 2 Maganese ppm ASTM D5185m 2 2 2 2 Magnesium ppm ASTM D5185m 488 7 7 7 Calcium ppm ASTM D5185m 3140 3186 2775 3 Zinc ppm ASTM D5185m 3140 3186 2775 3 2 <	Silver	ppm	ASTM D5185m	>3	0	0	0
Copper ppm ASTM D5185m >35 2 3 2 Tin ppm ASTM D5185m >4 0 1 2 Vanadium ppm ASTM D5185m 0 <1 <1 Cadmium ppm ASTM D5185m 0 <1 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 0 0 0 Barium ppm ASTM D5185m 2 2 2 2 Maganese ppm ASTM D5185m 2 2 2 2 Maganese ppm ASTM D5185m 8 7 7 7 Calcium ppm ASTM D5185m 8 7 7 7 Calcium ppm ASTM D5185m 351 376 357 357 Zinc ppm ASTM D5185m 3140 3186 2775 CONTAMINANTS	Aluminum	ppm	ASTM D5185m	>9	2	<1	1
Tin ppm ASTM D5185m >4 0 1 2 Vanadium ppm ASTM D5185m 0 <1	Lead	ppm	ASTM D5185m	>30	3	5	4
Vanadium ppm ASTM D5185m 0 <1	Copper	ppm	ASTM D5185m	>35	2	3	2
Cadmium ppm ASTM D5185m 0 <1	Tin	ppm	ASTM D5185m	>4	0	1	2
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m200BariumppmASTM D5185m000MolybdenumppmASTM D5185m222ManganeseppmASTM D5185m222MagnesiumppmASTM D5185m877CalciumppmASTM D5185m181016591645PhosphorusppmASTM D5185m351376357ZincppmASTM D5185m314031862775CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m300PotassiumppmASTM D5185m300PotassiumppmASTM D5185m20353Fuel%ASTM D5185m>20353SodiumppmASTM D5185m20353Fuel%ASTM D784400.10.10.1NitrationAbs/nm*ASTM D7624>206.76.15.8SulfationAbs/1mm*ASTM D7415>3020.820.019.7FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Vanadium	ppm	ASTM D5185m		0	<1	<1
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Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 2 2 2 Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m 8 7 7 Calcium ppm ASTM D5185m 8 7 7 Calcium ppm ASTM D5185m 1810 1659 1645 Phosphorus ppm ASTM D5185m 351 376 357 Zinc ppm ASTM D5185m 3140 3186 2775 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >20 3 5 3 Fuel % ASTM D5185m >20 3 5 3 Fuel % ASTM D584 0 0.1 </th <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 2 2 2 Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m 8 7 7 Calcium ppm ASTM D5185m 8 7 7 Calcium ppm ASTM D5185m 1810 1659 1645 Phosphorus ppm ASTM D5185m 351 376 357 Zinc ppm ASTM D5185m 3140 3186 2775 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >20 3 5 3 Fuel % ASTM D5185m >20 3 5 3 Fuel % ASTM D584 >4.0 0.1 0.1 0.2 INFRA-RED method limit/base	Boron	ppm	ASTM D5185m		2	0	0
Manganese ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 8 7 7 Calcium ppm ASTM D5185m 1810 1659 1645 Phosphorus ppm ASTM D5185m 351 376 357 Zinc ppm ASTM D5185m 488 489 453 Sulfur ppm ASTM D5185m 488 489 453 Sulfur ppm ASTM D5185m 3140 3186 2775 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >+20 3 0 0 Potassium ppm ASTM D5185m >20 3 5 3 Fuel % ASTM D5324 >4.0 0.1 0.1 0.2 INFRA-RED method limit/base current history1 history2 Soot % %	Molybdenum	ppm	ASTM D5185m		2	2	2
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Sodium ppm ASTM D5185m 3 0 0 Potassium ppm ASTM D5185m >20 3 5 3 Fuel % ASTM D5324 >4.0 0.1 0.1 0.2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 6.7 6.1 5.8 Sulfation Abs/.tmm *ASTM D7415 >30 20.8 20.0 19.7 FLUID DEGRADATION method limit/base current history1 history2	CONTAMINAN	TS	method	limit/base	current	history1	history2
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Fuel%ASTM D3524>4.00.10.10.2INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D784400.10.1NitrationAbs/cm*ASTM D7624>206.76.15.8SulfationAbs/.1mm*ASTM D7415>3020.820.019.7FLUID DEGRADATION methodlimit/basecurrenthistory1history2	Sodium	ppm	ASTM D5185m		3	0	0
INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D784400.10.1NitrationAbs/cm*ASTM D7624>206.76.15.8SulfationAbs/.1mm*ASTM D7415>3020.820.019.7FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Potassium	ppm	ASTM D5185m	>20	3	5	3
Soot % % *ASTM D7844 0 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 6.7 6.1 5.8 Sulfation Abs/.1mm *ASTM D7415 >30 20.8 20.0 19.7 FLUID DEGRADATION method limit/base current history1 history2	Fuel	%	ASTM D3524	>4.0	0.1	0.1	0.2
NitrationAbs/cm*ASTM D7624>206.76.15.8SulfationAbs/.1mm*ASTM D7415>3020.820.019.7FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 20.8 20.0 19.7 FLUID DEGRADATION method limit/base current history1 history2	Soot %	%	*ASTM D7844		0	0.1	0.1
FLUID DEGRADATION method limit/base current history1 history2	Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.1	5.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	20.0	19.7
Oxidation Abs/.1mm *ASTM D7414 >25 17.1 15.9 15.1	FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	15.9	15.1
Acid Number (AN) mg KOH/g ASTM D8045 1.64 1.45 1.32	Acid Number (AN)	mg KOH/g	ASTM D8045		1.64	1.45	1.32
	Base Number (BN)	mg KOH/g	ASTM D2896		3.37	3.41	3.08

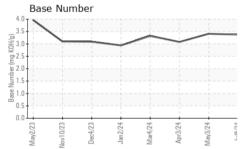


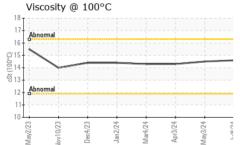
OIL ANALYSIS REPORT











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		Ye	llow Met	al	S	calar	*Visua		NONE		NON	E		NON	IE	1	NONE	
		Pr	ecipitate			calar	*Visua		NONE		NON	Е		NON	IE	1	NONE	
		Sil				calar	*Visua		NONE		NON	E		NON	IE	1	NONE	
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May3/24	Jul8/24		dor	•		calar	*Visua		NORML		NOR			NOF			NORM	
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May	Jul	5 -								2.								
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						-			ase	3.0								
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May3/24	NC/ 81-1	CC/Crim	Nov10/23	Dec4/23	Jan2/24	Mar4/24	Apr3/24 .	May3/24	Jul8/24		May2/23	Nov I U/23	Dec4/23	Jan2/24 -	Mar4/24	Apr3/24	May3/24	Jul8/24 .
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