

PROBLEM SUMMARY

CONSTRUCTORS, INC

04-0614

Component

Gasoline Engine

MOBIL 1 5W30 (--- GAL)

Sample Rating Trend DEGRADATION Juni 2018 Sesző119 Jani 2022 Marjötőz Anglótóz Marjötőz Mar

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC T	EST RE	SULTS			
Sample Status			ABNORMAL	MARGINAL	NORMAL
Base Number (BN)	mg KOH/g	ASTM D2896	1.6	3.6	2.8

Customer Id: CONLINNE Sample No.: SBP0004951 Lab Number: 06010086 Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

23 Mar 2023 Diag: Doug Bogart

WEAR



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Cylinder, crank, or cam shaft wear is indicated. Light fuel dilution occurring. No other contaminants were detected in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



17 Aug 2022 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

04 May 2022 Diag: Don Baldridge

WEAR



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

CONSTRUCTORS, INC 04-0614

Component

Gasoline Engine

MOBIL 1 5W30 (--- GAL)

Recommendation

DIAGNOSIS

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

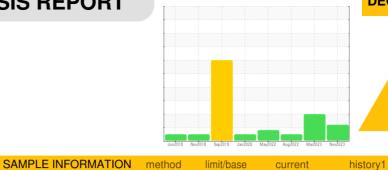
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

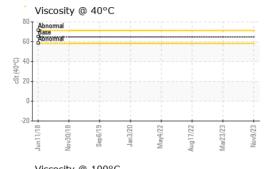
The BN level is low. The condition of the oil is acceptable for the time in service.

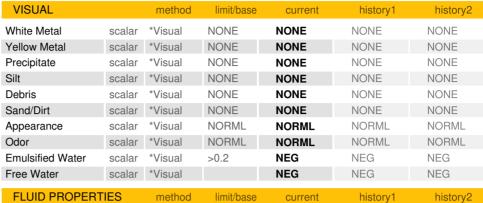


Sample Date Client Info Machine Age hrs Client Info 281 3180 7893 7	Sample Number		Client Info		SBP0004951	SBP0003801	SBP0001222
Oil Age hrs Client Info 281 287 230 Oil Changed Client Info Changed Changed Changed Changed Sample Status CONTAMINATION method limit/base current history1 history2 Fuel WC Method >4.0 <1.0	Sample Date		Client Info		09 Nov 2023	23 Mar 2023	17 Aug 2022
Oil Changed Sample Status Client Info Changed ABNORMAL ABNORMAL MARGINAL NORMAL Changed Normal NORMAL NORMAL Changed ABNORMAL MARGINAL NORMAL Changed MARGINAL NORMAL Changed MARGINAL NORMAL Changed MARGINAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NEG <	Machine Age	hrs	Client Info		8461	8180	7893
CONTAMINATION method limit/base current history1 history2 Fuel WC Method <4.0	Oil Age	hrs	Client Info		281	287	230
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >4.0 <1.0 ▲ 2.5 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method Inothogo NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >150 97 ▲ 147 65 Chromium ppm ASTM D5185m >20 2 3 1 Nickel ppm ASTM D5185m >20 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >50 0 0 0 Copper ppm ASTM D5185m >10 0 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 0	Oil Changed		Client Info		Changed	Changed	Changed
Fuel WC Method value < 1.0	Sample Status				ABNORMAL	MARGINAL	NORMAL
Water Glycol WC Method NEG Neton Net	CONTAMINATION	V	method	limit/base	current	history1	history2
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WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >150 97 ▲ 147 65 Chromium ppm ASTM D5185m >20 2 3 1 Nickel ppm ASTM D5185m >5 <1 <1 <1 Titanium ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >40 8 14 5 Lead ppm ASTM D5185m >40 8 14 5 Lead ppm ASTM D5185m >40 0 0 0 Copper ppm ASTM D5185m >10 0 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cadrium ppm ASTM D5185m 0.0 0 0	Water		WC Method	>0.2	NEG	NEG	NEG
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Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >40 8 14 5 Lead ppm ASTM D5185m >50 0 0 0 Copper ppm ASTM D5185m >10 0 <1	Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Aluminum	Titanium	ppm	ASTM D5185m		0	<1	0
Lead	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper ppm ASTM D5185m >-155 11 11 10 Tin ppm ASTM D5185m >10 0 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 94 18 20 25 Barium ppm ASTM D5185m 0.0 0 0 0 Molybdenum ppm ASTM D5185m 0.0 71 76 78 Magnesium ppm ASTM D5185m 1.0 2 <1 477 Calcium ppm ASTM D5185m 1388 482 547 477 Calcium ppm ASTM D5185m 720 683 616 595 Zinc ppm ASTM D5185m 780 782	Aluminum	ppm	ASTM D5185m	>40	8	14	5
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Magnesium ppm ASTM D5185m 1388 482 547 477 Calcium ppm ASTM D5185m 820 1142 1341 1138 Phosphorus ppm ASTM D5185m 720 683 616 595 Zinc ppm ASTM D5185m 780 782 832 737 Sulfur ppm ASTM D5185m 2240 2442 2973 2325 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 16 17 13 Sodium ppm ASTM D5185m >400 0 8 4 Potassium ppm ASTM D5185m >20 <1 5 0 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7624 >20 13.7 14.5 13.6 Sulfation Abs/.1mm *ASTM D7415	Boron		ASTM D5185m	94	18	20	25
Calcium ppm ASTM D5185m 820 1142 1341 1138 Phosphorus ppm ASTM D5185m 720 683 616 595 Zinc ppm ASTM D5185m 780 782 832 737 Sulfur ppm ASTM D5185m 2240 2442 2973 2325 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 16 17 13 Sodium ppm ASTM D5185m >400 0 8 4 Potassium ppm ASTM D5185m >20 <1 5 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 13.7 14.5 13.6 Sulfation Abs/.1mm *ASTM D7415 >30 31.1 29.8 30.0 FLUID DEGRADATION *ASTM	Boron Barium	ppm	ASTM D5185m ASTM D5185m	94 0.0	18 0	20	25 0
Phosphorus ppm ASTM D5185m 720 683 616 595 Zinc ppm ASTM D5185m 780 782 832 737 Sulfur ppm ASTM D5185m 2240 2442 2973 2325 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 16 17 13 Sodium ppm ASTM D5185m >400 0 8 4 Potassium ppm ASTM D5185m >20 <1 5 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 13.7 14.5 13.6 Sulfation Abs/.1mm *ASTM D7415 >30 31.1 29.8 30.0 FLUID DEGRADATION method	Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0	18 0 71	20 0 76	25 0 78
Zinc ppm ASTM D5185m 780 782 832 737 Sulfur ppm ASTM D5185m 2240 2442 2973 2325 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 16 17 13 Sodium ppm ASTM D5185m >400 0 8 4 Potassium ppm ASTM D5185m >20 <1 5 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 13.7 14.5 13.6 Sulfation Abs/.1mm *ASTM D7415 >30 31.1 29.8 30.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *AST	Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0	18 0 71 1 482	20 0 76 2	25 0 78 <1
Sulfur ppm ASTM D5185m 2240 2442 2973 2325 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 16 17 13 Sodium ppm ASTM D5185m >400 0 8 4 Potassium ppm ASTM D5185m >20 <1 5 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 13.7 14.5 13.6 Sulfation Abs/.1mm *ASTM D7415 >30 31.1 29.8 30.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 27.2 25.8 25.8	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0 1388	18 0 71 1 482	20 0 76 2 547	25 0 78 <1 477
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 16 17 13 Sodium ppm ASTM D5185m >400 0 8 4 Potassium ppm ASTM D5185m >20 <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820 720	18 0 71 1 482 1142 683	20 0 76 2 547 1341	25 0 78 <1 477 1138 595
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Sodium ppm ASTM D5185m >400 0 8 4 Potassium ppm ASTM D5185m >20 <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820 720 780	18 0 71 1 482 1142 683 782	20 0 76 2 547 1341 616 832	25 0 78 <1 477 1138 595 737
Potassium ppm ASTM D5185m >20 <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240	18 0 71 1 482 1142 683 782 2442	20 0 76 2 547 1341 616 832 2973	25 0 78 <1 477 1138 595 737 2325
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 13.7 14.5 13.6 Sulfation Abs/.1mm *ASTM D7415 >30 31.1 29.8 30.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 27.2 25.8 25.8	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 limit/base	18 0 71 1 482 1142 683 782 2442 current	20 0 76 2 547 1341 616 832 2973	25 0 78 <1 477 1138 595 737 2325 history2
Soot % % *ASTM D7844 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 13.7 14.5 13.6 Sulfation Abs/.1mm *ASTM D7415 >30 31.1 29.8 30.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 27.2 25.8 25.8	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 limit/base	18 0 71 1 482 1142 683 782 2442 current 16	20 0 76 2 547 1341 616 832 2973 history1	25 0 78 <1 477 1138 595 737 2325 history2
Nitration Abs/cm *ASTM D7624 >20 13.7 14.5 13.6 Sulfation Abs/.1mm *ASTM D7415 >30 31.1 29.8 30.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 27.2 25.8 25.8	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 limit/base >30 >400	18 0 71 1 482 1142 683 782 2442 current 16 0	20 0 76 2 547 1341 616 832 2973 history1 17	25 0 78 <1 477 1138 595 737 2325 history2 13
Sulfation Abs/.1mm *ASTM D7415 >30 31.1 29.8 30.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 27.2 25.8 25.8	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 limit/base >30 >400 >20	18 0 71 1 482 1142 683 782 2442 current 16 0 <1	20 0 76 2 547 1341 616 832 2973 history1 17 8 5	25 0 78 <1 477 1138 595 737 2325 history2 13 4
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 27.2 25.8 25.8	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 limit/base >30 >400 >20	18 0 71 1 482 1142 683 782 2442 current 16 0 <1	20 0 76 2 547 1341 616 832 2973 history1 17 8 5	25 0 78 <1 477 1138 595 737 2325 history2 13 4 0
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	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	94 0.0 0.0 1388 820 720 780 2240 limit/base >30 >400 >20 limit/base	18 0 71 1 482 1142 683 782 2442	20 0 76 2 547 1341 616 832 2973 history1 17 8 5 history1 0.1 14.5 29.8	25 0 78 <1 477 1138 595 737 2325 history2 13 4 0 history2 0.1 13.6 30.0
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	94 0.0 0.0 1388 820 720 780 2240 limit/base >30 >400 >20 limit/base	18 0 71 1 482 1142 683 782 2442 current 16 0 <1 current 0.1 13.7 31.1 current	20 0 76 2 547 1341 616 832 2973 history1 17 8 5 history1 0.1 14.5 29.8 history1	25 0 78 <1 477 1138 595 737 2325 history2 13 4 0 history2 0.1 13.6 30.0 history2

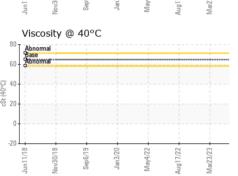


OIL ANALYSIS REPORT

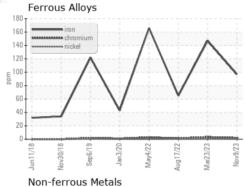




Abnormal					
Base					
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Abnormal					
					\sim
<u>0</u> <u>0</u>	- 61	- 02	22	22	- 53
Jun11/18 Nov30/18	Sep6/19	Jan3/	May4/7	ug17//	Mar23/2



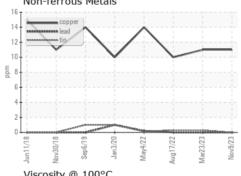


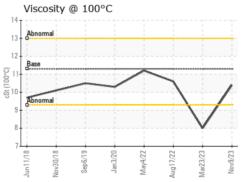


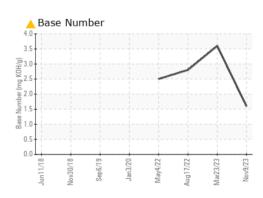
cSt

ASTM D445

11.3







<u>^</u> 8

10.6

10.4



Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0004951 : 06010086 : 10749230

Received Diagnosed Diagnostician

: 16 Nov 2023 : 20 Nov 2023 : Don Baldridge

Test Package : FLEET (Additional Tests: KV40)

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Constructors Inc. - 603659

1815 Y Street Lincoln, NE US 68508

Contact: Jack Linhart jackl@constructorslincoln.com

T: (402)434-2157