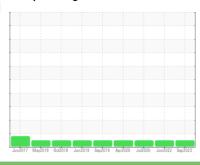


OIL ANALYSIS REPORT

CONSTRUCTORS, INC **CHEVROLET GASOLINE 03-0336**

Gasoline Engine

MOBIL 1 5W30 (--- GAL)



Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

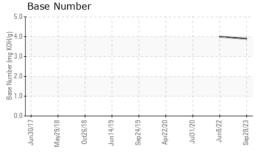
Fluid Condition

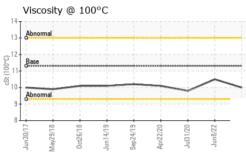
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0004568	SBP0001163	SBP17107046
Sample Date		Client Info		28 Sep 2023	08 Jun 2022	31 Jul 2020
Machine Age	hrs	Client Info		5033	4445	3570
Oil Age	hrs	Client Info		299	265	257
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	0.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	32	36	23
Chromium	ppm	ASTM D5185m	>20	2	2	1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>40	3	5	3
Lead	ppm	ASTM D5185m	>50	<1	<1	0
Copper	ppm	ASTM D5185m	>155	13	13	13
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
			12 24 //			la la tarre O
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	94	current 29	history1 88	nistory2 19
	ppm ppm				•	,
Boron	• • • • • • • • • • • • • • • • • • • •	ASTM D5185m	94	29	88	19
Boron Barium	ppm	ASTM D5185m ASTM D5185m	94	29 0	88	19
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	94	29 0 70	88 0 86	19 0 120
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0	29 0 70 <1	88 0 86 <1	19 0 120
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0	29 0 70 <1 503	88 0 86 <1 492	19 0 120 0 417
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820	29 0 70 <1 503 1161	88 0 86 <1 492 1234	19 0 120 0 417 1083
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820 720	29 0 70 <1 503 1161 627	88 0 86 <1 492 1234 648	19 0 120 0 417 1083 559
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm 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	29 0 70 <1 503 1161 627 755	88 0 86 <1 492 1234 648 775	19 0 120 0 417 1083 559
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 limit/base	29 0 70 <1 503 1161 627 755 2710	88 0 86 <1 492 1234 648 775 2630	19 0 120 0 417 1083 559 654
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	29 0 70 <1 503 1161 627 755 2710	88 0 86 <1 492 1234 648 775 2630 history1	19 0 120 0 417 1083 559 654
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	29 0 70 <1 503 1161 627 755 2710 current	88 0 86 <1 492 1234 648 775 2630 history1	19 0 120 0 417 1083 559 654
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 limit/base >30 >400	29 0 70 <1 503 1161 627 755 2710 current 13	88 0 86 <1 492 1234 648 775 2630 history1 12 2	19 0 120 0 417 1083 559 654 history2 6 4
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	29 0 70 <1 503 1161 627 755 2710 current 13 2 <1	88 0 86 <1 492 1234 648 775 2630 history1 12 2	19 0 120 0 417 1083 559 654 history2 6 4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Chlorine	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	29 0 70 <1 503 1161 627 755 2710 current 13 2 <1	88 0 86 <1 492 1234 648 775 2630 history1 12 2 1	19 0 120 0 417 1083 559 654 history2 6 4 2 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Chlorine 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	29 0 70 <1 503 1161 627 755 2710 current 13 2 <1 	88 0 86 <1 492 1234 648 775 2630 history1 12 2 1 	19 0 120 0 417 1083 559 654 history2 6 4 2 0 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Chlorine INFRA-RED Soot %	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	29 0 70 <1 503 1161 627 755 2710 current 13 2 <1 current 0	88 0 86 <1 492 1234 648 775 2630 history1 12 2 1 history1 0.1	19 0 120 0 417 1083 559 654 history2 6 4 2 0 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Chlorine INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m method *ASTM D7844 *ASTM D7624	94 0.0 0.0 1388 820 720 780 2240 limit/base >30 >400 >20	29 0 70 <1 503 1161 627 755 2710 current 13 2 <1 current 0 10.4	88 0 86 <1 492 1234 648 775 2630 history1 12 2 1 history1 0.1 10.3	19 0 120 0 417 1083 559 654 history2 6 4 2 0 history2 0.17
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Chlorine INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624	94 0.0 0.0 1388 820 720 780 2240 limit/base >30 >400 >20 limit/base	29 0 70 <1 503 1161 627 755 2710 current 13 2 <1 current 0 10.4 22.2	88 0 86 <1 492 1234 648 775 2630 history1 12 2 1 history1 0.1 10.3 21.0	19 0 120 0 417 1083 559 654 history2 6 4 2 0 history2 0.17



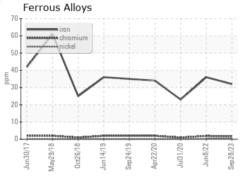
OIL ANALYSIS REPORT

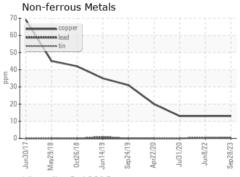


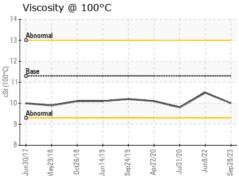


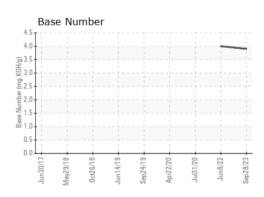
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	11.3	10.0	10.5	9.8













Laboratory Sample No. Lab Number

Unique Number : 10673532 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0004568 Received : 02 Oct 2023 : 04 Oct 2023 : 05966981 Diagnosed

Diagnostician : Jonathan Hester

Certificate L2367 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

Submitted By: Jack Linhart