

OIL ANALYSIS REPORT

Area **CONSTRUCTORS, INC** 040646

Gasoline Engine Fluid MOBIL 1 5W30 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

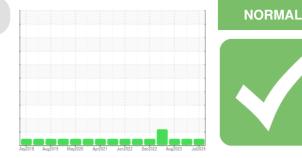
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

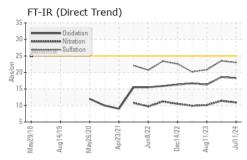


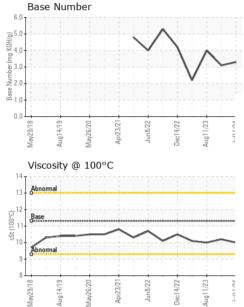
Sample Rating Trend

SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0007125	SBP0006341	SBP0004743
Sample Date		Client Info		11 Jul 2024	12 Feb 2024	11 Aug 2023
Machine Age	hrs	Client Info		7842	7532	7192
Oil Age	hrs	Client Info		310	340	307
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	24	30	18
Chromium	ppm	ASTM D5185m	>20	2	1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	4	5	3
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>155	10	13	11
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
Cadmium ADDITIVES	ppm	ASTM D5185m method	limit/base	0 current	0 history1	0 history2
	ppm ppm		limit/base 94	-	-	-
ADDITIVES		method		current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	94	current 33	history1 36	history2 37
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	94 0.0	current 33 0	history1 36 0	history2 37 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0	current 33 0 69	history1 36 0 65	history2 37 0 67
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0	current 33 0 69 <1	history1 36 0 65 <1	history2 37 0 67 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0 1388	current 33 0 69 <1 534	history1 36 0 65 <1 480	history2 37 0 67 <1 535
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820	current 33 0 69 <1 534 1345	history1 36 0 65 <1 480 1086	history2 37 0 67 <1 535 1266
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820 720	current 33 0 69 <1 534 1345 719	history1 36 0 65 <1 480 1086 666	history2 37 0 67 <1 535 1266 668
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	94 0.0 0.0 1388 820 720 780	current 33 0 69 <1 534 1345 719 805	history1 36 0 65 <1 480 1086 666 737	history2 37 0 67 <1 535 1266 668 828
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240	Current 33 0 69 <1 534 1345 719 805 3296	history1 36 0 65 <1 480 1086 666 737 2445	history2 37 0 67 <1 535 1266 668 828 3275
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240	current 33 0 69 <1 534 1345 719 805 3296 current	history1 36 0 65 <1 480 1086 666 737 2445 history1	history2 37 0 67 <1 535 1266 668 828 3275 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 limit/base >30	current 33 0 69 <1 534 1345 719 805 3296 current 11	history1 36 0 65 <1 480 1086 666 737 2445 history1 11	history2 37 0 67 <1 535 1266 668 828 3275 history2 9
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 2240 limit/base >30 >400	current 33 0 69 <1 534 1345 719 805 3296 current 11 4	history1 36 0 65 <1 480 1086 666 737 2445 history1 11 3	history2 37 0 67 <1 535 1266 668 828 3275 history2 9 2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 2240 limit/base >30 >400 >20	current 33 0 69 <1 534 1345 719 805 3296 current 11 4 3	history1 36 0 65 <1 480 1086 666 737 2445 history1 11 3 1	history2 37 0 67 <1 535 1266 668 828 3275 history2 9 2 2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 2240 limit/base >30 >400 >20	current 33 0 69 <1 534 1345 719 805 3296 current 11 4 3 current	history1 36 0 65 <1 480 1086 666 737 2445 history1 11 3 1 History1	history2 37 0 67 <1 535 1266 668 828 3275 history2 9 2 2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 2240 2240 230 >30 >400 >20	current 33 0 69 <1 534 1345 719 805 3296 current 11 4 3 current 0	history1 36 0 65 <1 480 1086 666 737 2445 history1 11 3 1 4 0.1	history2 37 0 67 <1 535 1266 668 828 3275 history2 9 2 history2 0 0 0.1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 2240 <i>limit/base</i> >30 >400 >20	current 33 0 69 <1 534 1345 719 805 3296 current 11 4 3 current 0 10.9	history1 36 0 65 <1 480 1086 666 737 2445 history1 11 3 1 0.1 11.4	history2 37 0 67 <1 535 1266 668 828 3275 history2 9 2 history2 0 0.1 10.1
ADDITIVES 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	method ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 imit/base >30 >400 >20 imit/base	current 33 0 69 <1 534 1345 719 805 3296 current 11 4 3 current 0 10.9 23.0	history1 36 0 65 <1 480 1086 666 737 2445 history1 11 3 1 history1 0.1 11.4 23.5	history2 37 0 67 <1 535 1266 668 828 3275 history2 9 2 history2 0.1 10.1 20.8



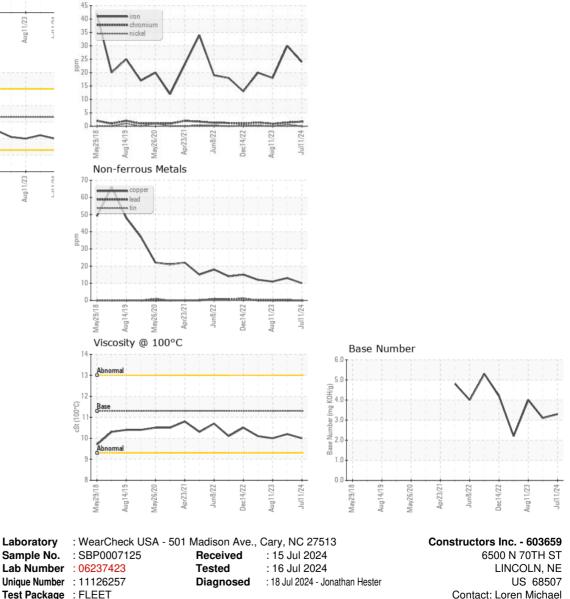
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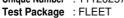




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.3	10.0	10.2	10.0
GRAPHS						







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)

Certificate 12367

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