

OIL ANALYSIS REPORT

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Area CONSTRUCTORS, INC 040696

Gasoline Engine

Fluid MOBIL MOBIL 1 EXT PERFORMANCE 5W20 (--- GAL)

DIAGNOSIS

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.

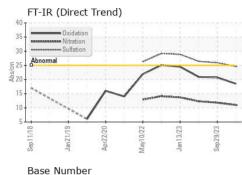
0 (GAL)		Sep2018	Jan2019 Apr2020	May2022 Jan2023 Sej	2023	
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006746	SBP0004907	SBP0003772
Sample Date		Client Info		10 Jun 2024	29 Sep 2023	11 May 2023
Machine Age	hrs	Client Info		4658	4364	4065
Oil Age	hrs	Client Info		294	299	291
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	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	9	17	24
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm		>40	3	2	<1
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm		>155	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	1	1
Cadmium	ppm	ASTM D5185m		2	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	100	56	33	32
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	80	70	75	67
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	800	522	552	532
Calcium	ppm	ASTM D5185m	1125	1321	1271	1341
Phosphorus	ppm	ASTM D5185m	720	680	701	703
Zinc	ppm	ASTM D5185m	790	800	850	845 3004
Sulfur	ppm	ASTM D5185m		3060	2805	
CONTAMINANTS		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>30	15	23	12
Sodium	ppm	ASTM D5185m	>400	4	2	2
Potassium	ppm	ASTM D5185m	>20	3	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.0	11.8	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	25.9	26.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	20.7	20.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.3	3.0	3.5	2.9

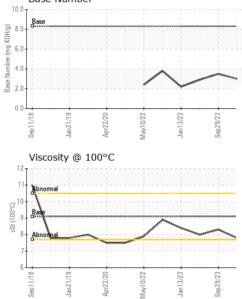
Sample Rating Trend





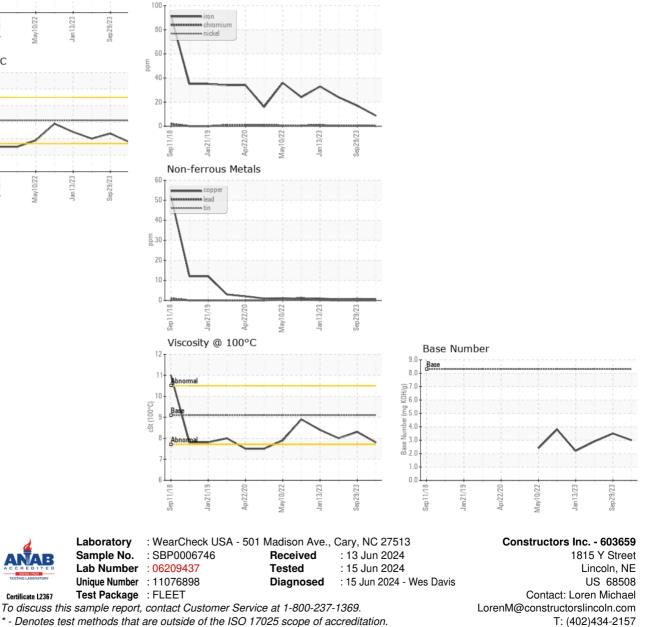
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	9.1	7.8	8.3	8

GRAPHS Ferrous Alloys



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

Certificate 12367

Submitted By: Loren Michael

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