

# **OIL ANALYSIS REPORT**

# Area CONSTRUCTORS, INC Machine Id 040695

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.

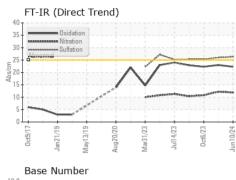
20 ( GAL)		Dct2017 Jan	2019 May2019 Aug202	10 Mar2023 Jul2023 Oct202	3 Jun2024	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006747	SBP0006373	SBP0004852
Sample Date		Client Info		10 Jun 2024	02 Feb 2024	06 Oct 2023
Machine Age	hrs	Client Info		9218	8858	8427
Oil Age	hrs	Client Info		360	431	324
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	MARGINAL
CONTAMINATION		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	8	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	4	3	2
Lead	ppm	ASTM D5185m	>50	0	<1	0
Copper	ppm	ASTM D5185m	>155	3	3	3
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		2	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	100	67	38	26
Barium	ppm	ASTM D5185m		0	13	<1
	ppm	ASTM D5185m	80	72	72	79
	ppm	ASTM D5185m		1	<1	<1
-	ppm	ASTM D5185m	800	552	500	535
	ppm	ASTM D5185m	1125	1354	1235	1226
•	ppm	ASTM D5185m	720	692	722	697
	ppm ppm	ASTM D5185m ASTM D5185m	790 2100	821 2851	804 2976	889 3148
CONTAMINANTS	le le	method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>30	17	17	18
	ppm	ASTM D5185m	>400	4	0	0
	ppm	ASTM D5185m	>20	3	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0
	Abs/cm	*ASTM D7624	>20	11.9	12.2	10.8
	Abs/.1mm	*ASTM D7415	>30	26.3	26.0	25.3
FLUID DEGRADAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.3	23.0	22.3
	mg KOH/g	ASTM D2896	8.3	3.1	▲ 0.5	▲ 2.3
(=)	0					

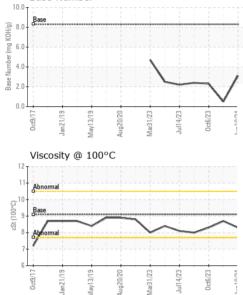
Sample Rating Trend

NORMAL



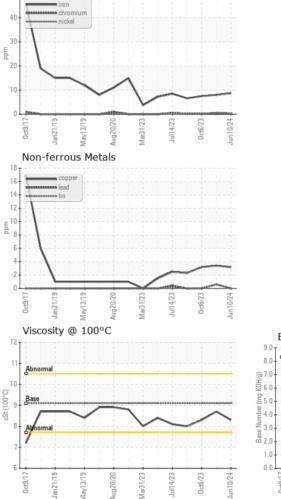
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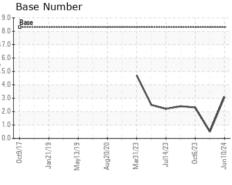




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	8.3	8.7	8.3

GRAPHS Ferrous Alloys





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Constructors Inc. - 603659 Sample No. : SBP0006747 : 13 Jun 2024 Received 1815 Y Street Lab Number : 06209436 Tested : 15 Jun 2024 Lincoln, NE Unique Number : 11076897 US 68508 Diagnosed : 15 Jun 2024 - Wes Davis Test Package : FLEET Contact: Loren Michael Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. LorenM@constructorslincoln.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (402)434-2157 F:

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