

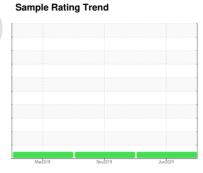
OIL ANALYSIS REPORT



G.LOPES CONSTRUCTION INC./Off-Road **BH890**

Transmission (Manual)

MOBIL MOBILFLUID 424 (--- GAL)





DIAGNOSIS

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.

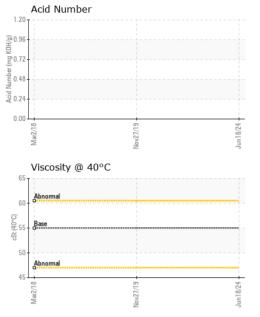
Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0122980	PCA45176055	PCA72326054
Sample Date		Client Info		18 Jun 2024	27 Nov 2019	02 Mar 2018
Machine Age	hrs	Client Info		6160	4214	2834
Oil Age	hrs	Client Info		6160		
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	13	30	39
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>7	0		
Aluminum	ppm	ASTM D5185m	>25	6	20	24
Lead	ppm	ASTM D5185m	>45	<1	0	0
Copper	ppm	ASTM D5185m	>225	5	4	4
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		78	55	4
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		5	3	0
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		98	22	21
Calcium	ppm	ASTM D5185m		3111	2239	952
Phosphorus	ppm	ASTM D5185m		1172	869	573
Zinc	ppm	ASTM D5185m		1363	804	305
Sulfur	ppm	ASTM D5185m		4593		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	11	7	1
Sodium	ppm	ASTM D5185m		5	2	0
Potassium	ppm	ASTM D5185m	>20	4	2	0
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.11		



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPE	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55	53.2		
SAMPLE IMAG	GES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						
Iron (ppm)			10	Lead (ppm)		
400 Severe				0		
400 Severe			E 5	0		
400 Severe 2000 Abnormal	1	***************************************	Ed 5	D - Abnormal		
400 Severe 2000 Abnormal		***************************************	Ed 5	D - Abnormal	27/19	18/24
400 Severe Abnormal 81 200	Nov27/19		Ed. 5	Abnormal 9 17 2 18		Jun18/24
Abnomal Abnomal Aluminum (ppm)	Nov27/19		Jun18/24 ppm	Abnormal SUZZEW Chromium (p		Jun18/24
Abnomal Abnomal Aluminum (ppm)	Nov27/19		42/81mb	Abnormal Suzzaw Chromium (p		
Abnomal Abnomal Aluminum (ppm)	Nov27/19		Jun18/24	Abnormal Suzzaw Chromium (p		Jun18/24
Abnomal Abnomal Severe Abnomal Abnomal			470 Jun 18/24 mdd	Abnormal 81/72/EW Chromium (p	pm)	
Abnomal Abnomal Severe Abnomal Abnomal			470 Jun 18/24 mdd	Abnormal 81/72/EW Chromium (p	pm)	
Abnormal Aluminum (ppm) Severe Abnormal	Nov27/19 Nov27/19		Jun18/24	Abnomal Chromium (p	ppm)	Jun18/24
Abnormal Abnormal Abnormal Abnormal Abnormal Copper (ppm)			42/81mU 4/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	Abnomal Chromium (p Severe Abnomal Severe Silicon (ppm)	ppm)	
Aluminum (ppm) Severe Abnormal Aluminum (ppm) Severe Abnormal Copper (ppm)			42/81mu 42/81mu 42/81mu 42/81mu 42/81mu 42/81mu 42/81mu 42/81mu 42/81mu 42/81mu	Abnomal Chromium (p Severe Abnomal Silicon (ppm) Severe Abnomal	ppm)	
Aluminum (ppm) Severe Abnormal Aluminum (ppm) Severe Abnormal Copper (ppm) Severe Abnormal			42/81mU 4/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	Abnomal Chromium (p Severe Abnomal Silicon (ppm) Severe Abnomal	ppm)	
Aluminum (ppm) Aluminum (ppm) Severe Abnormal Copper (ppm) Severe Abnormal	Nov27/19		mdq 300 mdq 300 mdq 300 mdq 300 mdq 300 mdd 300 md 30	Abnormal Chromium (p Severe Abnormal Silicon (ppm) Severe	Nov27/19	Jun18/24
Aluminum (ppm) Severe Abnormal Aluminum (ppm) Severe Abnormal Copper (ppm) Severe Abnormal			42/81mu 42/81mu 42/81mu 42/81mu 42/81mu 42/81mu 42/81mu 42/81mu 42/81mu 42/81mu	Abnomal Chromium (p Severe Abnomal Silicon (ppm) Severe Abnomal	ppm)	
Aluminum (ppm) Severe Abnormal Aluminum (ppm) Severe Abnormal Copper (ppm) Severe Abnormal Viscosity @ 40°C	Nov27/19		42/81nub 42/	Chromium (p	Nov27/19	Jun18/24
Abnomal Copper (ppm) Severe Abnomal Copper (ppm) Severe Abnomal Viscosity @ 40°C	Nov27/19		42/81nub 42/	Chromium (p	Nov27/19	Jun18/24
Aluminum (ppm) Severe Abnormal Copper (ppm) Severe Abnormal Viscosity @ 40°C	Nov27/19		mdq 300 mdq 300 mdq 300 mdq 300 mdq 300 mdd 300 md 30	Chromium (p	Nov27/19	Jun18/24





Laboratory Sample No.

Lab Number : 06215886

Unique Number : 11088750

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0122980 Received Tested

: 21 Jun 2024 Diagnosed : 21 Jun 2024 - Wes Davis

: 20 Jun 2024

Test Package : MOB 2 Certificate 12367 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)

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