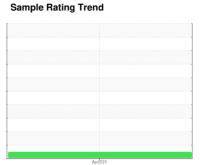


# **OIL ANALYSIS REPORT**



G.LOPES CONSTRUCTION INC./Off-Road

**L33 Rear Right Final Drive** {not provided} (--- GAL)





## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

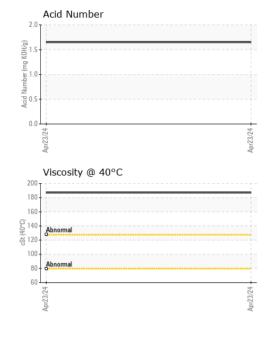
### **Fluid Condition**

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

L)				Apr2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0122608		
Sample Date		Client Info		23 Apr 2024		
Machine Age	hrs	Client Info		11001		
Oil Age	hrs	Client Info		11001		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	75		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m	>15	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>75	3		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	18		
Tin	ppm	ASTM D5185m	>8	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		2		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		24		
Calcium	ppm	ASTM D5185m		2881		
Phosphorus	ppm	ASTM D5185m		1005		
Zinc	ppm	ASTM D5185m		1209		
Sulfur	ppm	ASTM D5185m		6585		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	5		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.65		



## **OIL ANALYSIS REPORT**



Visc @ 40°C cSt ASTM D445 187 SAMPLE IMAGES method limit/base current history1 histor  Color no image no image no image	VISUAL		method	limit/base	current	history1	history
Precipitate scalar *Visual NONE NONE Sitt scalar *Visual NONE NONE	White Metal	scalar	*Visual	NONE	NONE		
Silit scalar *Visual NONE NONE Debris scalar *Visual NONE NONE	Yellow Metal	scalar	*Visual	NONE	NONE		
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirt scalar *Visual NONE NONE	Silt	scalar	*Visual	NONE	NONE		
Appearance scalar *Visual NORML NORML	Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.2 NEG Free Water scalar *Visual >0.2 NEG Free Water scalar *Visual NEG FLUID PROPERTIES method limit/base current history1 histor Visc @ 40°C cSt ASTM D445 187  SAMPLE IMAGES method limit/base current history1 histor Color no image no image no image no image  GRAPHS Iron (ppm)  Aluminum (ppm)  Aluminum (ppm)  Aluminum (ppm)  Chromium (ppm)  Chromium (ppm)  Silicon (ppm)  Silicon (ppm)	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.2 NEG Free Water scalar *Visual NEG	Appearance	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG  FLUID PROPERTIES method limit/base current history1 histor  Visc @ 40°C cSt ASTM D445 187  SAMPLE IMAGES method limit/base current history1 histor  Color no image no image no image  Regular no image no image no image  Regular no image  Regular no image no image no image  Regular no image no image no image  Regular no image	Odor	scalar	*Visual	NORML	NORML		
FLUID PROPERTIES method limit/base current history1 history  Visc @ 40°C cSt ASTM D445 187  SAMPLE IMAGES method limit/base current history1 history  Color no image no image no image no image  GRAPHS  Iron (ppm)  Chromium (ppm)  Abnormal  Aluminum (ppm)  Chromium (ppm)  Chromium (ppm)  Server  Abnormal  Aluminum (ppm)  Server  Abnormal  Server	Emulsified Water	scalar	*Visual	>0.2	NEG		
SAMPLE IMAGES method limit/base current history1 history  Color no image no image no image no image  Bottom no image no image no image  Iron (ppm)  Chromium (ppm)  Aluminum (ppm)  Chromium (ppm)  Severe  Silicon (ppm)	Free Water	scalar	*Visual		NEG		
SAMPLE IMAGES method limit/base current history1 history  Rottom no image no image no image no image  Rottom no image no image  Rottom no image no image no image no image  Rottom no image no image no image no image  Rottom no image no	FLUID PROPE	RTIES	method	limit/base	current	history1	history
Bottom    no image   no image   no image	Visc @ 40°C	cSt	ASTM D445		187		
Bottom    no image   no image   no image	SAMPLE IMAG	SES	method	limit/base	current	history1	history
GRAPHS  Iron (ppm)  Lead (ppm)  Severe  Abnormal  Chromium (ppm)  Severe  Abnormal  Abnormal  Copper (ppm)  Silicon (ppm)	Color				no image	no image	no image
Iron (ppm)  Severe  Abnormal  Aluminum (ppm)  Chromium (ppm)  Severe  Abnormal  FEEZIGA  Abnormal  FEEZIGA  FEEZIGA  Severe  Severe  Abnormal  Severe	Bottom				no image	no image	no image
Iron (ppm)    Severe   Abnormal	GRAPHS						
Abnormal  Severe  Silicon (ppm)					Lead (nnm)		
Abnomal  Abnomal  Abnomal  Abnomal  Abnomal  Abnomal  Accepted with the property of the proper	)			3	0		
Aluminum (ppm)  Severe  Abnormal  Approximal  Foregraph  Copper (ppm)  Silicon (ppm)				E.2	Abnormal		
Aluminum (ppm)  Chromium (ppm)  Severe  Abnormal  Abnormal  Copper (ppm)  Silicon (ppm)				1	U T 3		
Aluminum (ppm)  Chromium (ppm)  Abnormal  Abnormal  Copper (ppm)  Severe  Abnormal  Severe  Silicon (ppm)							
Severe   30   Severe   4   4   5   5   5   5   5   5   5   5				Ap		nm)	
Copper (ppm)  Silicon (ppm)	Severe Severe			3	0		
Copper (ppm)  Silicon (ppm)	Abnormal			E.2			
Copper (ppm)  Silicon (ppm)	1				1		
Copper (ppm) Silicon (ppm)							
	22			123	0123		
Severe 1000 T Severe	Apr23/2			Αp	A.		
Abnormal E 500 Abnormal	Copper (ppm)				Silicon (ppm)		





Certificate 12367

Sample No. : PCA0122608 Lab Number : 06161665

Test Package : MOB 2

St (40°C)

Unique Number : 10997088

Viscosity @ 40°C

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Apr 2024 **Tested** : 29 Apr 2024

Diagnosed

: 29 Apr 2024 - Don Baldridge

Acid Nurr

Acid Number

US 02780 Contact: BUTCH MCGRATH bmcgrath@glopes.com T:

**G LOPES CONSTRUCTION** 

565 WINTHROP ST

TAUNTON, MA

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)

F: