

OIL ANALYSIS REPORT

Sample Rating Trend





G.LOPES CONSTRUCTION INC./Off-Road

Component Rear Differential

{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.

Fluid

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

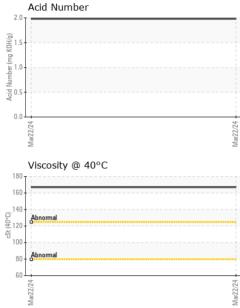
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

				Mar2024		
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109951		
Sample Date		Client Info		22 Mar 2024		
Machine Age	hrs	Client Info		11576		
Oil Age	hrs	Client Info		11576		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	54		
Chromium	ppm	ASTM D5185m	>3	0		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>2	1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>30	3		
Lead	ppm	ASTM D5185m	>13	<1		
Copper	ppm	ASTM D5185m	>103	6		
Tin	ppm	ASTM D5185m	>5	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		5		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		84		
Calcium	ppm	ASTM D5185m		3020		
Phosphorus	ppm	ASTM D5185m		1409		
Zinc	ppm	ASTM D5185m		1314		
Sulfur	ppm	ASTM D5185m		13391		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	12		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	2		
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.98		



OIL ANALYSIS REPORT

VISUAL



White Metal Yellow Metal Precipitate	scalar *Visu scalar *Visu	ual NONE	E	NONE NONE NONE			
Debris Sand/Dirt Appearance Odor Emulsified Water	scalar *Visu scalar *Visu scalar *Visu scalar *Visu scalar *Visu	ual NONE ual NONE ual NORM ual NORM ual >.2	E E ML	NONE NORML NORML NEG	 	 	
	RTIES me	thod limit	/base	NEG current 167	 history1 	 history2 	
	iES me	thod limit/	/base	current	history1	history2	
Bottom				no image	no image	no image	
GRAPHS Iron (ppm)			30	Lead (ppm) Severe			
Aluminum (ppm)		Mar22/24	. 0 War25/24 0 10	Chromium (pp	mium (ppm)		
0 Mar22/24		Mar22/24	ظ 5- 0	Abnormal			
200 Severe		124	200 튭 100 0	Abnormal			
Viscosity @ 40°C			Acid Number (mg KOH/g)	Acid Number			
		Madison Ave., Cary, NC 27513 Received : 26 Mar 2024 Tested : 27 Mar 2024 Diagnosed : 29 Mar 2024 - Don E <i>e at 1-800-237-1369.</i> 25 scope of accreditation. the simple acceptance decision m			G LOPES CONSTRUCTIO 565 WINTHROP TAUNTON, I Baldridge US 027 Contact: BUTCH MCGRA bmcgrath@glopes.cd		
	Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 40°C SAMPLE IMAG Color Bottom GRAPHS Iron (ppm) Severe Abnormal Copper (ppm) Severe Abnormal Debris Sand/Dirt Appearance Color	Yellow Metal scalar *Visu Precipitate scalar *Visu Silt scalar *Visu Debris scalar *Visu Sand/Dirt scalar *Visu Appearance scalar *Visu Odor scalar *Visu Emulsified Water scalar *Visu Free Water scalar *Visu FLUID PROPERTIES me Visc @ 40°C cSt ASTM SAMPLE IMAGES me Color Iron (ppm)	Yellow Metal scalar *Visual NONI Precipitate scalar *Visual NONI Silt scalar *Visual NONI Silt scalar *Visual NONI Sand/Dirt scalar *Visual NONI Appearance scalar *Visual NONI Appearance scalar *Visual NONI Appearance scalar *Visual NONI Appearance scalar *Visual NORI Odor scalar *Visual NORI Emulsified Water scalar *Visual >.2 Free Water scalar *Visual >.2 Free Water scalar *Visual NORI Visc @ 40°C cSt ASTM D445 SAMPLE IMAGES method limit Color Iron (ppm) Monomal for the scalar for the scalar for the scalar for the scalar Manemal for the scalar Monomal for the sca	Yellow Metal scalar *Visual NONE Precipitate scalar *Visual NONE Silt scalar *Visual NONE Debris scalar *Visual NONE Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORML Odor scalar *Visual NORML Odor scalar *Visual NORML Emulsified Water scalar *Visual >.2 Free Water scalar *Visual >.2 FLUID PROPERTIES method imit/base Visc @ 40°C cSt ASTM D445 SAMPLE IMAGES method imit/base Color Iron (ppm) gao gao 0 for (ppm) gao gao	Yellow Metal scalar Visual NONE NONE Precipitate scalar 'Visual NONE NONE Silt scalar 'Visual NONE NONE Debris scalar 'Visual NONE NONE Sand/Diri scalar 'Visual NONE NONE Appearance scalar 'Visual NORML NORML Odor scalar 'Visual NORML NORML Pree Water scalar 'Visual NOR Neg Visc @ 40°C CS ASTM D445 167 Sandom Important Important Important Important Muminum (ppm) Important Important Important Important Muminum (ppm) Important Important Importan	Yellow Metal scalar *Visual NONE Precipitate scalar *Visual NONE Sitt scalar *Visual NONE NONE Sitt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG FLUID PROPERTIES method limit/base current history1 Visc@ 40°C cSt ASTM D445 167 SAMPLE IMAGES method limit/base current history1 Color no image no image no image no image Momma gamma gamma gamma gamma gamma gamma GRAPHS gamma gamma gamma gamma gamma gamma gamma	