

OIL ANALYSIS REPORT

G.LOPES CONSTRUCTION INC./On-Road Component

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Sample Rating Trend GLYCOL 3

Machine 316

Diesel Engine Fluid

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
▲ Recommendation We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.	Sample Number		Client Info		PCA0109543	PCA0109657	PCA0104594
	Sample Date		Client Info		06 Mar 2024	02 Jan 2024	11 Oct 2023
	Machine Age	mls	Client Info		66500	66500	66500
	Oil Age	mls	Client Info		4933	4933	4933
	Oil Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	SEVERE	SEVERE
/ear	CONTAMINAT	ION	method	limit/base	current	history1	history2
Il component wear rates are normal.	Water		WC Method	>0.2	NEG	NEG	NEG
 Contamination Test for glycol is positive. Light fuel dilution occurring. There is a high concentration of glycol present in the oil. Fluid Condition The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants. 	WEAR METAL	.S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	6	22	19
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	<1
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	<1	<1
	Aluminum	ppm	ASTM D5185m	>20	0	<1	2
	Lead	ppm	ASTM D5185m	>40	4	10	8
	Copper	ppm	ASTM D5185m	>330	224	509	395
	Tin	ppm	ASTM D5185m	>15	1	2	1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	Cadmium	ppm	ASTM D5185m		0	<1	<1
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	22	6	7
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	67	87	71
	Manganese	ppm	ASTM D5185m	0	0	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	309	616	752
	Calcium	ppm	ASTM D5185m	1070	377	868	946
	Phosphorus	ppm	ASTM D5185m	1150	405	841	890
	Zinc	ppm	ASTM D5185m	1270	418	909	1078
	Sulfur	ppm	ASTM D5185m	2060	1173	2438	2961
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	9	9	7
	Sodium	ppm	ASTM D5185m		<u> </u>	1094	568
	Potassium	ppm	ASTM D5185m	>20	^ 757	A 824	4 09
	Fuel	%	ASTM D3524	>3.0	<u> </u>	1 7.0	▲ 7.0
	Glycol	%	*ASTM D2982		0.20	▲ 0.12	▲ 0.10
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.3	1.1	1.9
	Nitration	Abs/cm	*ASTM D7624	>20	18.6	14.2	11.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	21.5	22.7
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Ovidation	Abo/1mm	*ASTM D7/1/	× 25	173	18/	16.9
	Oxidation	ADS/.111111	A311VI D7414	>20	17.5	10.4	10.5



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