WEAR CONTAMINATION FLUID CONDITION

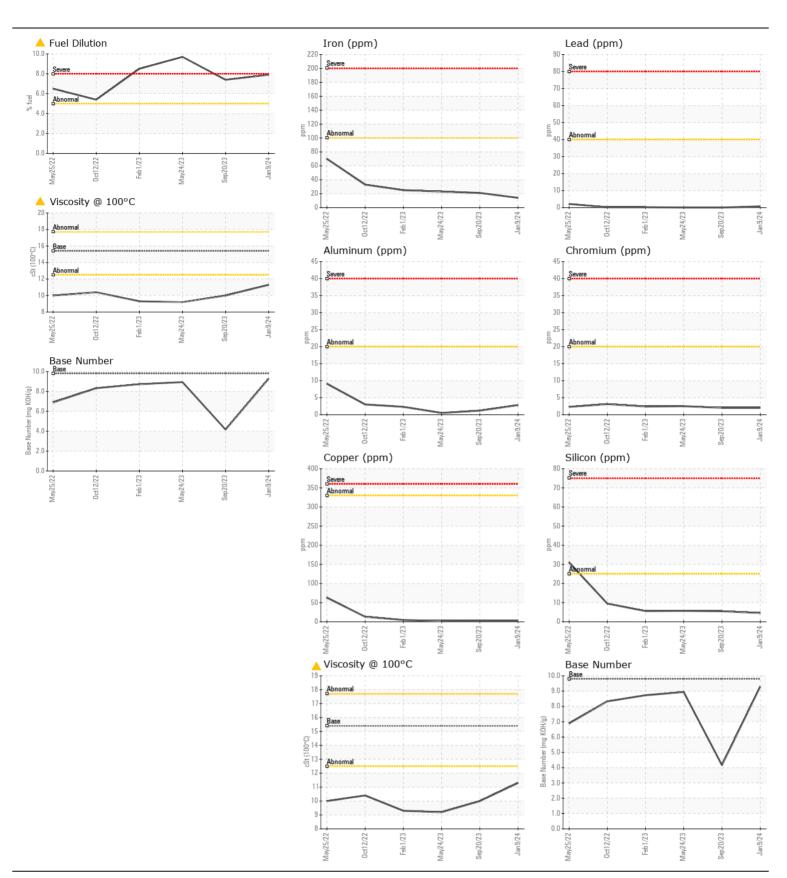
NORMAL ABNORMAL ABNORMAL

G.LOPES CONSTRUCTION INC./ON-ROAD

PU309

Component
Discal Fngine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		PCA0109651	PCA0104692	,
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.	Sample Date		Client Info		09 Jan 2024	20 Sep 2023	24 May 202
	Machine Age	mls	Client Info		31852	26000	20000
	Oil Age	mls	Client Info		10852	11000	10000
	Filter Age	mls	Client Info		0	0	10000
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>100	14	21	23
Motal lavels are typical for a new component breaking in	Chromium	ppm	ASTM D5185m	>20	2	2	2
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	2	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	3	1	<1
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m	>330	2	2	2
	Tin	ppm	ASTM D5185m	>15	0	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	6	6
CONTAININATION	Potassium	ppm	ASTM D5185m		0	3	1
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3163111			<u> </u>	9.7
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\3	0.3	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.9	10.9	10.5
	Sulfation	Abs/.1mm	*ASTM D7415		20.1	21.7	21.2
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water			>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	3	2
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		0	13	4
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	54	71	58
	Manganese	ppm	ASTM D5185m	0	<1	<1	1
	Magnesium	ppm	ASTM D5185m	1010	881	399	829
	Calcium	ppm	ASTM D5185m	1070	1005	1761	1087
	Phosphorus	ppm	ASTM D5185m	1150	964	913	969
	Zinc	ppm	ASTM D5185m	1270	1222	1147	1184
	Sulfur	ppm	ASTM D5185m	2060	3070	3998	3591
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	20.3	20.3
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.29	4.16	8.94
	Dago Hambol (BH)	99				-	







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06059430 : 10830812

: PCA0109651

Recieved Diagnosed

: 16 Jan 2024 Diagnostician : Wes Davis

: 12 Jan 2024

Test Package : MOB 2 (Additional Tests: PercentFuel) 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)

G LOPES CONSTRUCTION

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