WEAR CONTAMINATION **FLUID CONDITION**

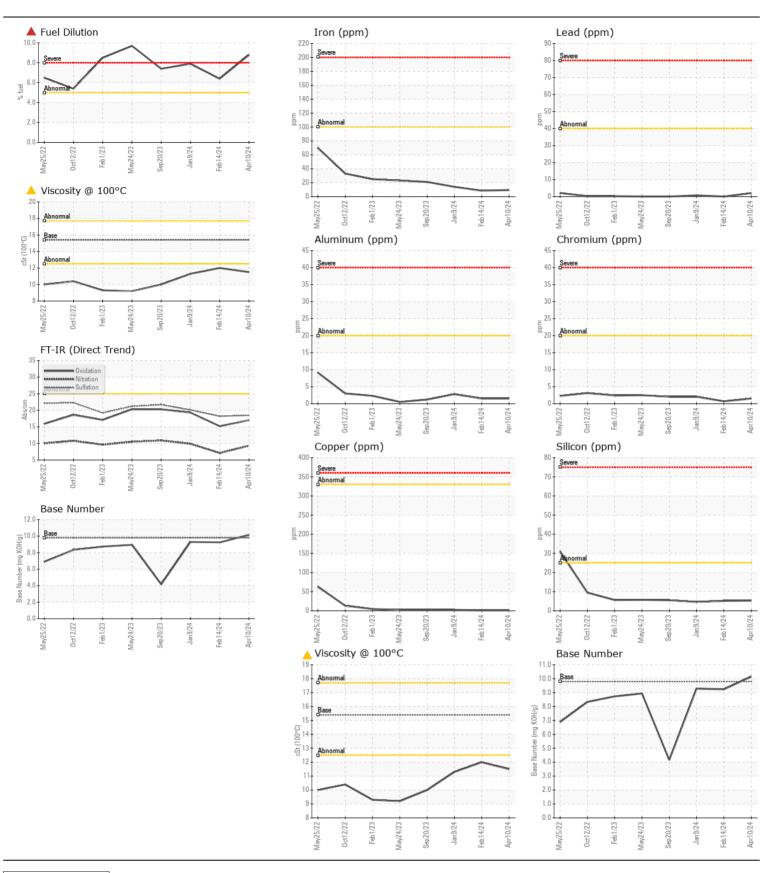
NORMAL SEVERE ABNORMAL

G.LOPES CONSTRUCTION INC./ON-ROAD

PU309

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.	Sample Number	OOW	Client Info	LITTION	PCA0109890	PCA0109851	PCA010965
	Sample Date		Client Info		10 Apr 2024	14 Feb 2024	09 Jan 202
	Machine Age	mls	Client Info		35700	32500	31852
	Oil Age	mls	Client Info		8200	5648	10852
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	ABNORMAL	ABNORMA
VEAR	Iron	ppm	ASTM D5185m	>100	9	8	14
	Chromium	ppm	ASTM D5185m		2	<1	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		- <1	0	2
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m		2	2	3
	Lead	ppm	ASTM D5185m		2	0	<1
	Copper	ppm	ASTM D5185m	>330	1	1	2
	Tin	ppm	ASTM D5185m	>15	1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	5	5
	Potassium	ppm	ASTM D5185m	>20	2	2	0
There is a high amount of fuel present in the oil.	Fuel	%	ASTM D3524		▲ 8.8	<u></u> 6.4	7.9
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.3	7.1	9.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	18.2	20.1
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		<1	0	0
Trial is present in the ail and is lovewise the disease. The DAL was the	Boron	ppm	ASTM D5185m	0	2	4	0
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m	0	0	10	0
	Molybdenum	ppm	ASTM D5185m	60	55	57	54
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		939	882	881
	Calcium	ppm	ASTM D5185m		1125	1017	1005
	Phosphorus	ppm	ASTM D5185m		1095	1021	964
	Zinc	ppm	ASTM D5185m		1298	1154	1222
	Sulfur	ppm	ASTM D5185m		3656	3255	3070
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	15.2	19.3
	Base Number (BN)				10.14	9.24	9.29







Certificate L2367

Laboratory Sample No.

Lab Number : 06147560

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0109890

Received **Tested**

Unique Number: 10977638 Diagnosed 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.

G LOPES CONSTRUCTION

565 WINTHROP ST TAUNTON, MA US 02780

Contact: BUTCH MCGRATH bmcgrath@glopes.com

T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 12 Apr 2024

: 17 Apr 2024

: 17 Apr 2024 - Jonathan Hester