WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id 520296

Component Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		PCA0100996		
	Sample Date		Client Info		12 Mar 2024		
	Machine Age	mls	Client Info		325248		
	Oil Age	mls	Client Info		325567		
	Filter Age	mls	Client Info		325567		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
/EAR	Iron	ppm	ASTM D5185m	>100	7		
	Chromium	ppm	ASTM D5185m		0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		<1		
	Lead	ppm	ASTM D5185m		3		
	Copper	ppm	ASTM D5185m		1		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m	7.0	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	nnm	ASTM D5185m	. 25	4		
ONTAMINATION	Potassium	ppm	ASTM D5185m		4 0		
There is no indication of any contamination in the oil.	Fuel	ppm					
	Water		WC Method		<1.0 NEG		
	Glycol		WC Method WC Method	>0.2	NEG		
	Soot %	%	*ASTM D7844	~ 2	0.1		
	Nitration	Abs/cm	*ASTM D7624		7.5		
	Sulfation	Abs/.1mm	*ASTM D7024		18.7		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
	Linuisinea water		Visuai	70.2			
LUID CONDITION	Sodium	ppm	ASTM D5185m	>406	4		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		82		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		4		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		85		
	Calcium	ppm	ASTM D5185m		2341		
	Phosphorus	ppm	ASTM D5185m		1101		
	Zinc	ppm	ASTM D5185m		1219		
	Sulfur	ppm	ASTM D5185m		5241		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4		
	Base Number (BN)	mg KOH/g	ASTM D2896		7.4		
	Visc @ 100°C	cSt	ASTM D445	1///	14.1		





Laboratory Sample No.

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

: PCA0100996 Lab Number : 06122026 Unique Number: 10936177

Received **Tested**

: 19 Mar 2024 : 19 Mar 2024 - Wes Davis Diagnosed

: 19 Mar 2024

Test Package : MOB 1 (Additional Tests: TBN) 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)

SYNAGRO 284 BOGER RD MOCKSVILLE, NC US 27028

Contact: ROGER AMICK ramick@synagro.com T: (336)998-7150

F: (336)998-2155