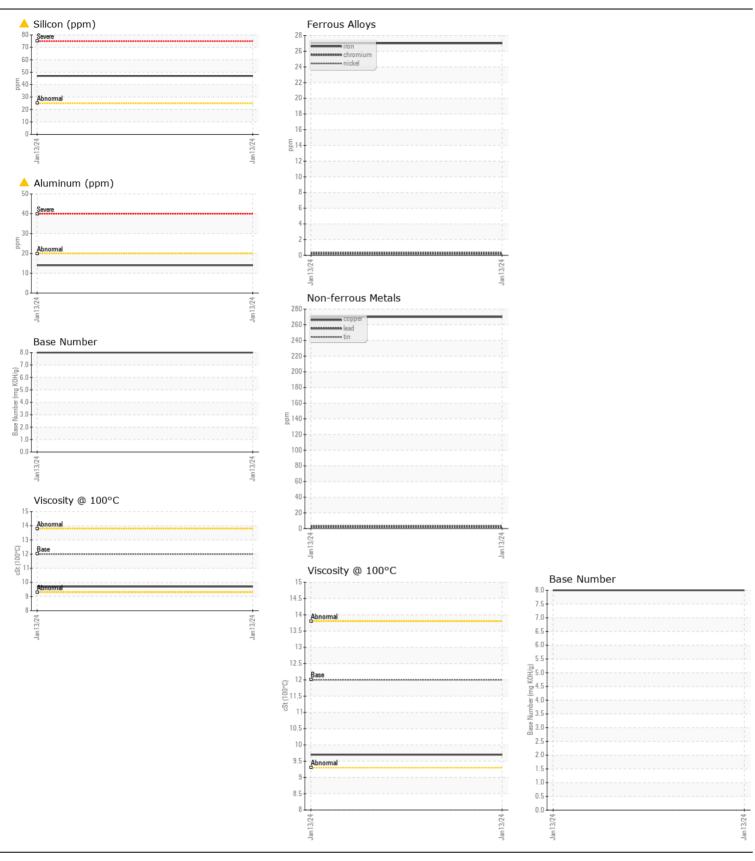
WEAR CONTAMINATION **FLUID CONDITION** **ATTENTION ABNORMAL NORMAL**

Machine Id **2327131**

Component Diesel Engine

RECOMMENDATION	Toct	UOM	Method	Limit/Abn	Current	History1	Hiotom O
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Test	UOIVI	Client Info	LIIIIII/ADII	PCA06060008	HISTORY I	History2
	Sample Number Sample Date		Client Info		13 Jan 2024		
	Machine Age	mls	Client Info		0		
	Oil Age	mls	Client Info		20000		
	Filter Age	mls	Client Info		0		
	Oil Changed	11110	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	27		
	Chromium	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	7 7	0		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		▲ 14		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		<u>-</u> 270		
	Tin	ppm	ASTM D5185m		4		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4 7		
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m		44		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	9.2		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2		
	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	scalar	*Visual	>0.2	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		4		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	2	246		
	Barium	ppm	ASTM D5185m	0	0		
	Molybdenum	ppm	ASTM D5185m	50	120		
	Manganese	ppm	ASTM D5185m	0	3		
	Magnesium	ppm	ASTM D5185m	950	654		
	Calcium	ppm	ASTM D5185m		1564		
	Phosphorus	ppm	ASTM D5185m	995	712		
	Zinc	ppm	ASTM D5185m	1180	842		
	Sulfur	ppm	ASTM D5185m		2359		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7		
	Base Number (BN)	0 0	ASTM D2896		8.0		
	Visc @ 100°C	cSt	ASTM D445	12.00	9.7		







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: PCA06060008 : 06060008 : 10831390 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 12 Jan 2024 Diagnosed : 16 Jan 2024

Diagnostician : Don Baldridge

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)

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