OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE NORMAL

Machine Id

BIGGER-BERTHA (S/N H45A0100069)

Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UCIVI	Client Info	LIIIIII/AUII	TR06151965	TR05563494	
We recommend that you use depth or electrostatic filtration to remove insolubles from the oil and to reduce the levels of varnish in the system. Alternatively draining a percentage of the oil and topping up with fresh oil (sweetening the oil) may provide a reduction in the varnish potential level. Please note that this is a corrected copy for laboratory data and diagnostic comment updates.	Sample Number		Client Info		30 Mar 2024	03 Jun 2022	30 Oct 2020
	Machine Age	hrs	Client Info		118054	7296	11520
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Change
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	ATTENTION	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>20	1	2	3
WLAN	Chromium	ppm	ASTM D5185m		0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	710	0	0	0
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m	>10	0	0	0
	Lead	ppm	ASTM D5185m	>10	0	<1	0
	Copper	ppm	ASTM D5185m	>75	3	2	3
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	<1	<1	<1
There is a high amount of particulates present in the oil. MPC (Membrane Patch Colorimetry) test indicates a high concentration of varnish present. There is a moderate amount of visible silt present in the sample.	Potassium	ppm	ASTM D5185m	>20	8	0	0
	Water		WC Method	>0.1	NEG	NEG	NEG
	MPC Varnish Potential	Scale	ASTM D7843	>15	43		
	Particles >4µm		ASTM D7647	>5000	A 79985	6383	3019
	Particles >6µm		ASTM D7647	>1300	7796	1870	614
	Particles >14μm		ASTM D7647		<u> </u>	223	41
	Particles >21µm		ASTM D7647	>40	<u> </u>	58	13
	Particles >38μm		ASTM D7647	>10	9	5	2
	Particles >71μm		ASTM D7647		2	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	23/20/15	20/18/15	19/16/13
	Silt	scalar	*Visual	NONE	▲ MODER	NONE	NONE
	Debris Sand/Dirt	scalar	*Visual *Visual	NONE	NONE NONE	NONE NONE	NONE
		scalar	*Visual	NONE NORML	NORML	NORML	NORMI
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	1	2
The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m		0	0	2
	Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m		0	0	0 <1
	Manganese	ppm	ASTM D5165III		0	0	0
	Magnesium	ppm	ASTM D5185m		0	0	1
	Calcium	ppm	ASTM D5185m		10	53	63
	Phosphorus	ppm	ASTM D5185m		606	663	709
	Zinc	ppm	ASTM D5185m		490	778	797
	Sulfur	ppm	ASTM D5185m		1453	1671	1669
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.66	0.84	0.813
	. ,						
	Visc @ 40°C	cSt	ASTM D445	46	45.7		

Visc @ 100°C cSt

Viscosity Index (VI) Scale ASTM D2270

ASTM D445 6.3

7.1

6.9

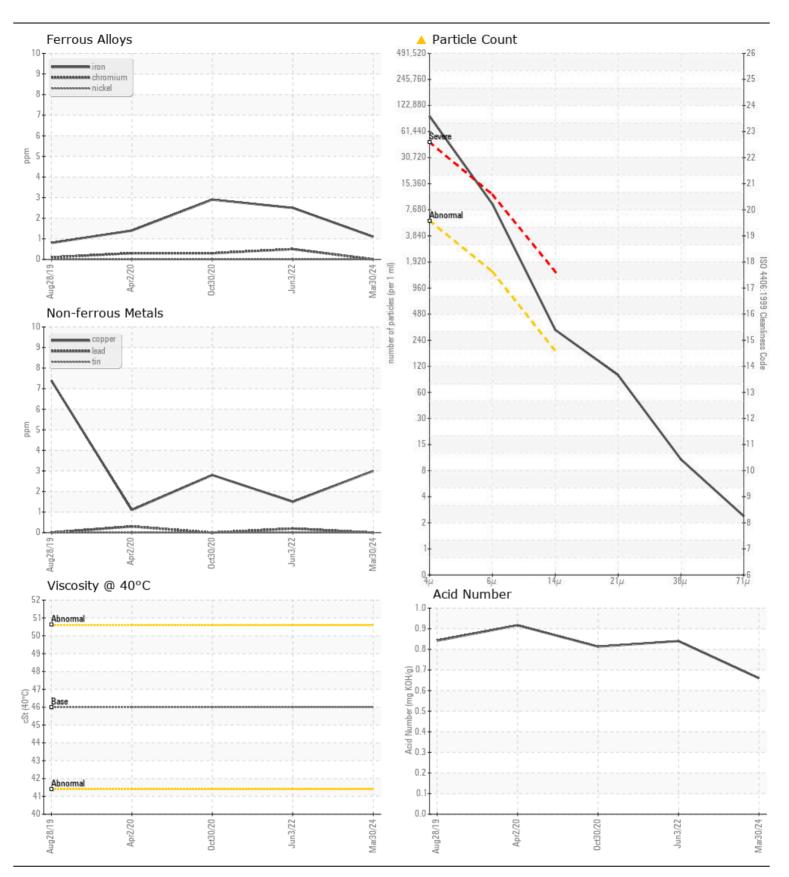
106

7.1





Report Id: PELTORCA [WUSCAR] 06151965 (Generated: 05/12/2024 16:06:07) Rev: 2





Report Id: PELTORCA [WUSCAR] 06151965 (Generated: 05/12/2024 16:06:10) Rev: 2

Laboratory Sample No.

Lab Number : 06151965

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06151965

Received **Tested** Unique Number : 10982043 Diagnosed

Test Package: MOB 2 (Additional Tests: KV100, MPC, VI) To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

23215 EARLY AVE TORRANCE, CA

US 90505 Contact: NORMAN MASSON

PELICAN PRODUCTS INC

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

: 17 Apr 2024

: 12 May 2024

: 12 May 2024 - Doug Bogart

T: F:

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