

PROBLEM SUMMARY

Sample Rating Trend

ISO

Powerblock Machine Id

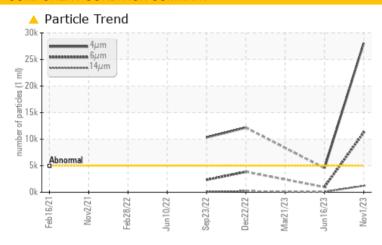
KAMENGO KAMENGO HPU (S/N PHS01233RER)

Component

Bulk Fluid Tank

Royal Purple biomass EAL hydraulic oil 46 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	NORMAL	ABNORMAL				
Particles >4µm	ASTM D7647	>5000	28098	4540					
Particles >6µm	ASTM D7647	>1300	<u> </u>	972					
Particles >14μm	ASTM D7647	>160	1210	90					
Particles >21μm	ASTM D7647	>40	4 346	38					
Particles >38μm	ASTM D7647	>10	<u>^</u> 22	6					
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u>22/21/17</u>	19/17/14					

Customer Id: VEOCAR Sample No.: WC0814538 Lab Number: 06000164 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

16 Jun 2023 Diag: Jonathan Hester

NORMAL



This is a baseline read-out on the submitted sample.



21 Mar 2023 Diag: Jonathan Hester

VIS DEBRIS



We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



22 Dec 2022 Diag: Jonathan Hester

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



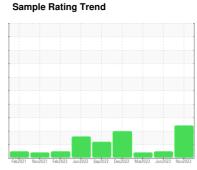


OIL ANALYSIS REPORT

Powerblock Powerblock KAMENGO KAMENGO HPU (S/N PHS01233RER)

Bulk Fluid Tank

Royal Purple biomass EAL hydraulic oil 46 (--- GAL)





DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

(GAL)		Fed2021 New2021 Fed2022 Juni2022 Sep2022 Dec2022 May2023 Juni2023 New2023							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		WC0814538	WC0814553	WC0798557			
Sample Date		Client Info		01 Nov 2023	16 Jun 2023	21 Mar 2023			
Machine Age	mths	Client Info		60	26280	26280			
Oil Age	mths	Client Info		3	26280	26280			
Oil Changed		Client Info		Filtered	N/A	N/A			
Sample Status				ABNORMAL	NORMAL	ABNORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m		38	1	2			
Chromium	ppm	ASTM D5185m		<1	<1	<1			
Nickel	ppm	ASTM D5185m		0	0	<1			
Titanium	ppm	ASTM D5185m		1	2	2			
Silver	ppm	ASTM D5185m		0	0	0			
Aluminum	ppm	ASTM D5185m		0	1	0			
Lead	ppm	ASTM D5185m		2	2	2			
Copper	ppm	ASTM D5185m		6	19	35			
Tin	ppm	ASTM D5185m		<1	2	4			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m		0	0	0			
Barium	ppm	ASTM D5185m		0	0	0			
Molybdenum	ppm	ASTM D5185m		0	0	0			
Manganese	ppm	ASTM D5185m		<1	<1	<1			
Magnesium	ppm	ASTM D5185m		0	2	3			
Calcium	ppm	ASTM D5185m		86	105	63			
Phosphorus	ppm	ASTM D5185m		515	653	520			
Zinc	ppm	ASTM D5185m		23	18	51			
Sulfur	ppm	ASTM D5185m		6319	8569	6456			
CONTAMINANTS	3	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m		0	<1	0			
Sodium	ppm	ASTM D5185m		5	<1	1			
Potassium	ppm	ASTM D5185m	>20	2	1	<1			
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2			
Particles >4µm		ASTM D7647	>5000	<u>^</u> 28098	4540				
Particles >6µm		ASTM D7647	>1300	<u> </u>	972				
Particles >14µm		ASTM D7647	>160	<u> </u>	90				
Particles >21μm		ASTM D7647	>40	<u>^</u> 346	38				
Particles >38μm		ASTM D7647	>10	<u>^</u> 22	6				
Particles >71μm		ASTM D7647	>3	2	1				
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>22/21/17</u>	19/17/14				
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2			
Acid Number (AN)	mg KOH/g	ASTM D8045		1.29	1.82	1.94			



OIL ANALYSIS REPORT

