

OIL ANALYSIS REPORT

LOG YARD Machine Id PORTAL CRANE GRAPPLE (S/N LY105B1)

Hydraulic System

VALVOLINE AW HYDRAULIC 68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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



Sample Rating Trend

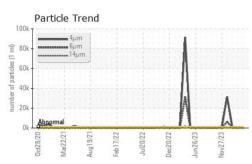
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0783045	WC0783036	WC0834647
Sample Date		Client Info		23 May 2024	19 Mar 2024	15 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N.	method	limit/base	current	history1	history2
Water	N	WC Method	>0.05	NEG	NEG	NEG
				-		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	0	0
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	<1	1	2
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2.6	1	2	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	2	2
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	1.9	10	14	13
Calcium	ppm	ASTM D5185m	81	87	88	82
Phosphorus	ppm	ASTM D5185m	350	338	347	322
Zinc	ppm	ASTM D5185m	445	448	442	447
Sulfur	ppm	ASTM D5185m	1850	992	992	868
CONTAMINANTS	• •	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		1	2	2
Potassium	ppm	ASTM D5185m		0	0	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	481	917	614
Particles >6µm		ASTM D7647	>320	118	249	199
Particles >14µm		ASTM D7647	>40	12	35	16
Particles >21µm		ASTM D7647	>10	4	10	2
Particles >38µm		ASTM D7647	>3	1	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/15/12	16/14/11	17/15/12	16/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.24	0.27	0.22

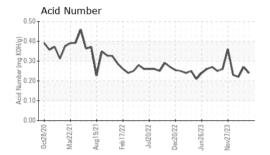
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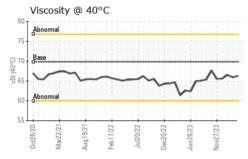
Contact/Location: Ted Hudson - JMHCRY

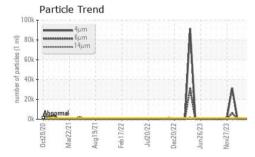


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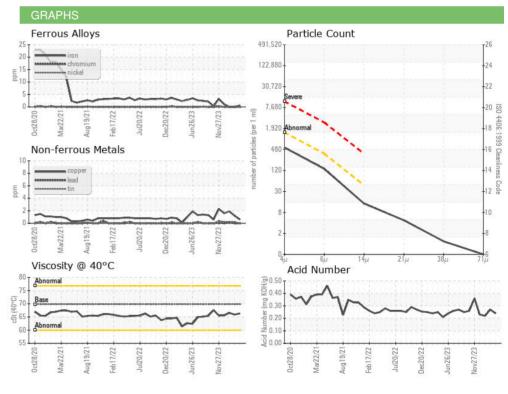








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	69.8	66.3	65.9	66.5
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				andre can Internation Internation New Conference New Conference Ne		
Bottom						



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 J.M. Huber Corporation Sample No. : WC0783045 Received : 30 May 2024 PO BOX 38 Lab Number : 06195881 Tested : 02 Jun 2024 CRYSTAL HILL, VA Unique Number : 11058004 Diagnosed : 02 Jun 2024 - Wes Davis US 24539 Test Package : IND 2 Contact: Ted Hudson Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ted.hudson@huber.com T: (434)476-6628 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F: (434)476-8133

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

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