WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

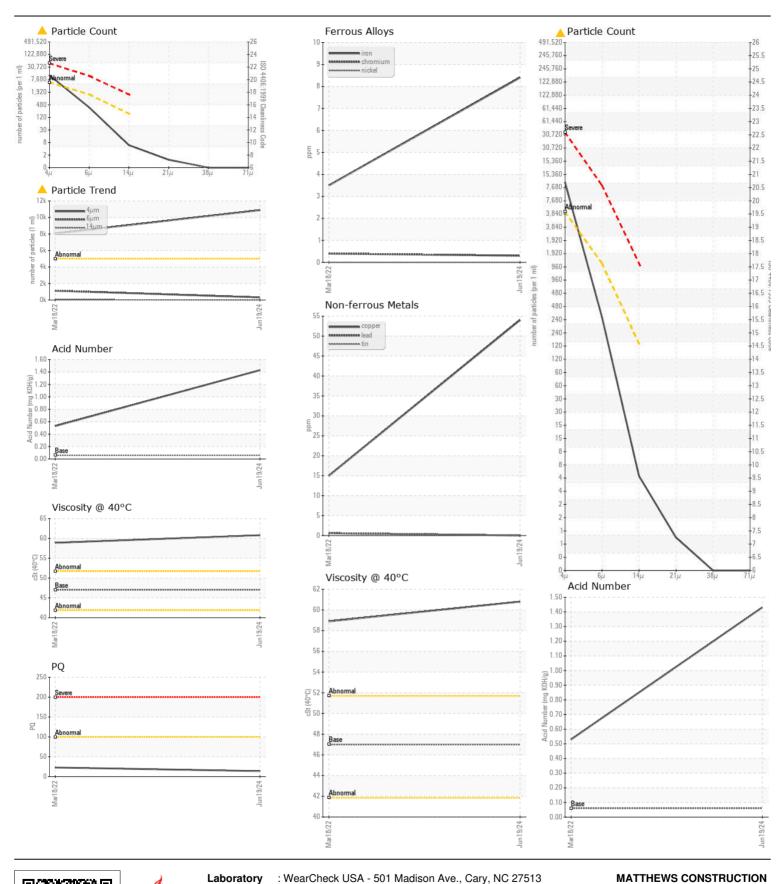
Machine Id

E234

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

RECOMMENDATION No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn		History1	History2
	Sample Number		Client Info		JR0219632		
	Sample Date		Client Info		19 Jun 2024	18 Mar 2022	
	Machine Age	hrs	Client Info		1526	488	
	Oil Age	hrs	Client Info		0	488	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
<u></u>	Sample Status				ABNORMAL	ATTENTION	
WEAR	PQ		ASTM D8184		14	23	
All component wear rates are normal	Iron	ppm	ASTM D5185m		8	4	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m		8	3	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		54	15	
	Tin	ppm	ASTM D5185m	>10	0	<1	
	Vanadium	ppm	ASTM D5185m	NONE	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	14	8	
The section is blink assessment of all the section labor. Our law are in all all and a section labor.	Potassium	ppm	ASTM D5185m	>20	4	4	
There is a high amount of silt (particulates < 6 microns in size) present in the oil.	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>5000	<u> </u>	8053	
	Particles >6µm		ASTM D7647		319	1129	
	Particles >14μm		ASTM D7647		5	48	
	Particles >21μm		ASTM D7647		1	12	
	Particles >38μm		ASTM D7647		0	1	
	Particles >71μm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 21/15/10	20/17/13	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE NORML	
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML	
	Emulsified Water		*Visual	>0.1	NEG	NEG	
	Linusineu water	Sudiai	vioual	20.1	NEG	INLG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		4	2	
The AN level is eccentable for this fluid. The eccellisists of the effective	Boron	ppm	ASTM D5185m		37	24	
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		47	17	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		334	274	
	Calcium	ppm	ASTM D5185m		2347	2149	
	Phosphorus	ppm	ASTM D5185m		1031	1042	
	Zinc	ppm	ASTM D5185m		1197	1200	
	Sulfur	ppm	ASTM D5185m		4069	3189	
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.43	0.53	
	Visc @ 40°C	cSt	ASTM D445	47	60.8	58.9	





Certificate L2367

Laboratory Sample No. Lab Number

: JR0219632 : 06226112

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

Tested Unique Number : 11109605 Diagnosed Test Package : CONST (Additional Tests: PQ)

: 03 Jul 2024

: 02 Jul 2024

: 05 Jul 2024 - Jonathan Hester

127 GRAYSON RD ROCK HILL, SC US 29732

Contact: Tad Clinton tclinton@matthewsconstructionco.com T: (803)207-5607

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)

Received

F: