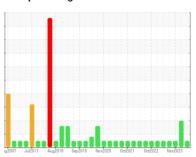


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id NORTH RESERVOIR

Component
Hydraulic System
Fluid
USPI FG HYD 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

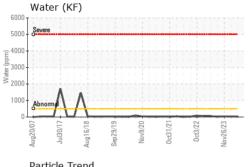
Fluid Condition

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

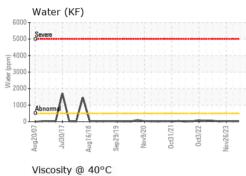
		ig2007 Jul20	117 Aug2018 Sep2019	Nov2020 Oct2021 Oct2022	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM37633	USPM30249	USPM31415
Sample Date		Client Info		09 Jun 2024	28 Feb 2024	26 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	<1	0	<1
Tin	ppm	ASTM D5185m	>20	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	1
Phosphorus	ppm	ASTM D5185m	725	511	448	479
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	625	625	483	555
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		<1	<1	1
Sodium	ppm	ASTM D5185m	710	<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304		0.002	0.002	0.003
ppm Water	ppm	ASTM D6304		19	25	31
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	120	<u>^</u> 22762	1131
Particles >6µm		ASTM D7647	>1300	47	<u>▲</u> 8065	340
Particles >14µm		ASTM D7647	>160	9	<u> </u>	24
Particles >21µm		ASTM D7647	>40	2	▲ 173	7
Particles >38µm		ASTM D7647	>10	0	5	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/13/10	△ 22/20/17	17/16/12
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.36	0.31	0.33	0.28
	J					

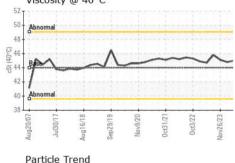


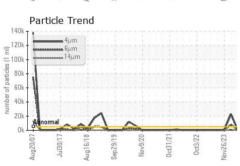
OIL ANALYSIS REPORT



140k	Part	icle T	rend						
≘ ^{120k} =100k		4µ1 4µ1 14µ	m m um						
number of particles 90k 90k									
40k 20k	1		,					٨	
0k	Aug20/07	mal LI/08Inf	Aug16/18	Sep29/19	Nov9/20	0ct31/21	0ct3/22	Nov26/23	_







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	LIGHT
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	TIES	method	limit/base	current	history1	history2

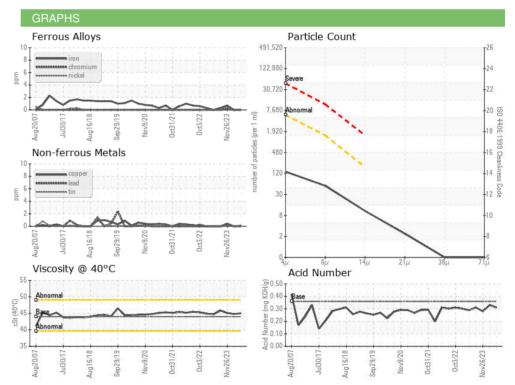
I LOID I HOI LITTILO						
Visc @ 40°C	cSt	ASTM D445	44	45.0	44.8	45.1

SAMPLE IMAGES	
---------------	--

Color

Bottom









Certificate 12367

Laboratory Sample No.

Lab Number : 06205514 Unique Number : 11072975

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USPM37633

Received : 10 Jun 2024 **Tested** : 12 Jun 2024

Diagnosed : 12 Jun 2024 - Doug Bogart TYSON-DAKOTA CITY-PRO

P.O. BOX 515 DAKOTA CITY, NE US 68731

Contact: Service Manager

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)

F: (605)235-2960

Contact/Location: Service Manager - IBPDAKPRO