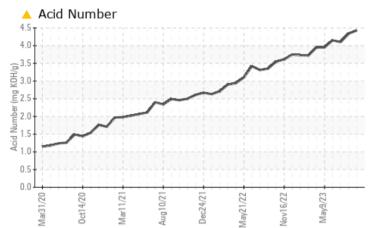
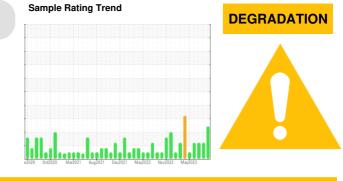


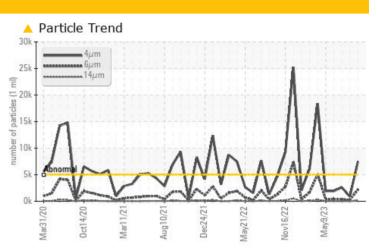
## **PROBLEM SUMMARY**

## Area Machine Id 71-A-3350 MPG HYDRUALIC START SYSTEM (71-T-3350) (S/N Maint Plan 22480) Component 2 Hydraulic System Fluid NOT GIVEN (286 LTR)

## COMPONENT CONDITION SUMMARY







## RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
Particles >4µm		ASTM D7647	>5000	<u> </u>	882	2606	
Particles >6µm		ASTM D7647	>1300	<b>A</b> 2173	231	353	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	17/15/11	19/16/11	
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>4.43</b>	4.34	4.10	

Customer Id: SPESTJ Sample No.: PP Lab Number: 02591432 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Kevin Marson +1 (289)291-4644 x4644 <u>Kevin.Marson@wearcheck.com</u>

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED A	JHONS			
Action	Status	Date	Done By	Description
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.
Change Filter			?	We recommend you service the filters on this component.
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.

#### HISTORICAL DIAGNOSIS



### 23 Aug 2023 Diag: Bill Quesnel

We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is above the recommended limit. The oil is no longer serviceable.



view report

### \_\_\_\_\_



## 18 Jul 2023 Diag: Kevin Marson

We advise that you check for visible metal particles in the oil. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.Light concentration of visible metal present. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## 23 May 2023 Diag: Kevin Marson

## ISUAL METAL



We advise that you check for visible metal particles in the oil. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.Light concentration of visible metal present. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**

## Area Machine Id 71-A-3350 MPG HYDRUALIC START SYSTEM (71-T-3350) (S/N Maint Plan 22480) Component 2 Hydraulic System

NOT GIVEN (286 LTR)

### DIAGNOSIS

## Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

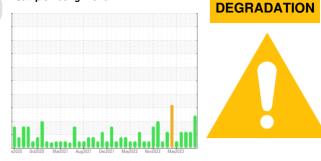
All component wear rates are normal.

#### Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

The AN level is above the recommended limit. The oil is no longer serviceable.

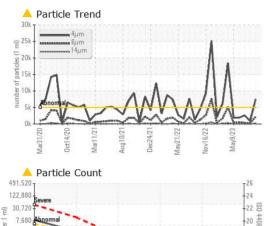


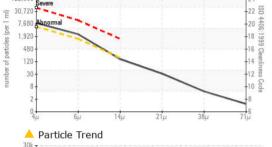
Sample Rating Trend

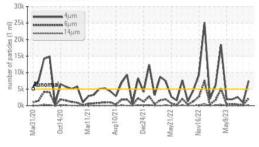
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP	PP	PP
Sample Date		Client Info		11 Sep 2023	23 Aug 2023	18 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	4	3	3
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>10	0	<1	0
Lead	ppm	ASTM D5185(m)	>20	5	5	4
Copper	ppm	ASTM D5185(m)	>20	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		1	1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		0	0	<1
Calcium	ppm	ASTM D5185(m)		<1	1	1
Phosphorus	ppm	ASTM D5185(m)		3188	3078	2984
Zinc	ppm	ASTM D5185(m)		3	3	4
Sulfur	ppm	ASTM D5185(m)		9	9	8
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	8	7	7
Sodium	ppm	ASTM D5185(m)		1	1	1
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>A</b> 7490	882	2606
Particles >6µm		ASTM D7647	>1300	<u> </u>	231	353
Particles >14µm		ASTM D7647	>160	139	17	16
Particles >21µm		ASTM D7647	>40	28	5	6
Particles >38µm		ASTM D7647	>10	4	1	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 20/18/14	17/15/11	19/16/11
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN) 29:14) Rev: 1	mg KOH/g	ASTM D974*		<b>4.43</b>	4.34	4.10 Submitted By:

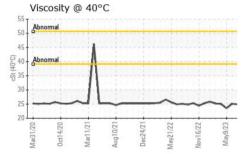


# **OIL ANALYSIS REPORT**

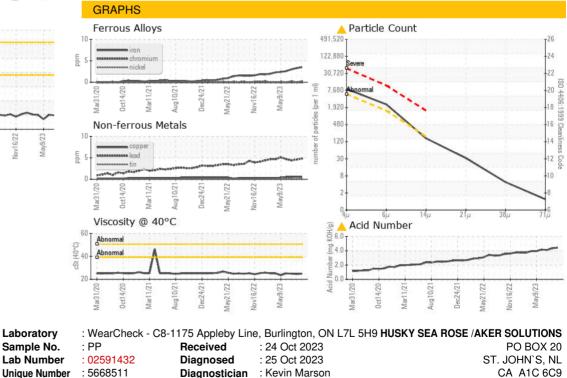








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	🔺 VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	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 D7279(m)		24.9	24.6	24.9
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color						
Bottom						
PrtFilter				no image	no image	





Test Package : IND 2 (Additional Tests: TAN Man) To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

CALA

Laboratory

Sample No.

Lab Number