

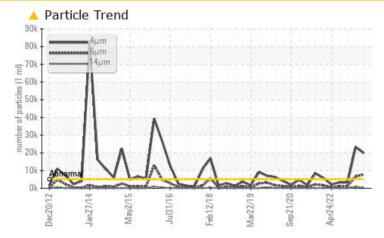
PROBLEM SUMMARY

System 43 - Water Injection [13884887] Machine Id Z-4305D Pump / Motor Lubricating Oil

Pump

IRVING HYDRAULIC OIL LP 32 (1950 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS Sample Status ABNORMAL NORMAL ABNORMAL Particles >4µm ASTM D7647 >5000 19815 23293 3287 Particles >6µm ASTM D7647 >1300 7810 6538 1295 ASTM D7647 >160 Particles >14µm 572 700 100 Particles >21um ASTM D7647 >40 **111 243** 16 **Oil Cleanliness** ISO 4406 (c) >19/17/14 **21/20/16** A 22/20/17 19/17/14

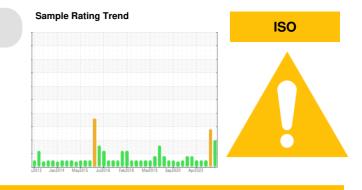
Customer Id: HIBSTJ Sample No.: PP Lab Number: 02577509 Test Package: MAR 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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



RECOMMENDED ACTIONS									
Action	Status	Date	Done By	Description					
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.					
Resample			?	We recommend an early resample to monitor this condition.					
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.					

HISTORICAL DIAGNOSIS



11 Mar 2023 Diag: Wes Davis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. Oil Cleanliness are abnormally high. Particles >71 μ m are abnormally high. Particles >14 μ m are abnormally high. Particles >21 μ m are abnormally high. Particles >4 μ m are abnormally high. Particles >38 μ m are abnormally high. Particles >6 μ m are abnormally high. The water content is negligible. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



view report



29 Dec 2022 Diag: Wes Davis

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. 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.

05 Dec 2022 Diag: Wes Davis



Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. 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 System 43 - Water Injection [13884887] Z-4305D Pump / Motor Lubricating Oil Component

Pump Fluid

IRVING HYDRAULIC OIL LP 32 (1950 LTR)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear

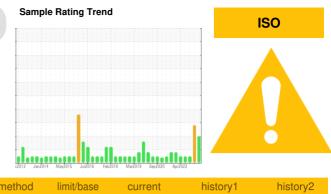
All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP	PP	PP
Sample Date		Client Info		08 Aug 2023	11 Mar 2023	29 Dec 2022
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	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	<1	<1	0
Chromium	ppm	ASTM D5185(m)	>5	0	0	0
Nickel	ppm	ASTM D5185(m)		0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>5	0	0	0
	ppm	ASTM D5185(m)	>10	0	0	0
	ppm	ASTM D5185(m)		<1	0	0
	ppm	ASTM D5185(m)		0	0	<1
	ppm	ASTM D5185(m)		0	<1	<1
	ppm	ASTM D5185(m)		0	0	0
	ppm	ASTM D5185(m)		0	0	0
	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
	ppm	ASTM D5185(m)		0	<1	<1
	ppm	ASTM D5185(m)		0	0	0
	ppm	ASTM D5185(m)		0	0	0
	ppm	ASTM D5185(m)		0	0	0
-	ppm	ASTM D5185(m)		۰ <1	1	<1
-	ppm	ASTM D5185(m)		52	56	54
	ppm	ASTM D5185(m)		354	368	360
	ppm	ASTM D5185(m)	400	416	414	413
	ppm	ASTM D5185(m)	400	855	929	891
	ppm	ASTM D5185(m)		<1	<1	<1
	μμιι	ASTIN D3103(III)		<1		<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	0	0	0
	ppm	ASTM D5185(m)		1	1	1
	ppm	ASTM D5185(m)	>20	<1	<1	<1
	%	ASTM D6304*		0.006	0.002	0.002
ppm Water	ppm	ASTM D6304*	>.1	66.1	23.4	22.0
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	A 23293	3287
Particles >6µm		ASTM D7647	>1300	<u> </u>	6 538	1295
Particles >14µm		ASTM D7647	>160	<u> </u>	 700	100
Particles >21µm		ASTM D7647	>40	<u> </u>	A 243	16
Particles >38µm		ASTM D7647	>10	1	A 23	0
			0	•		0

ASTM D7647 >3

0

ISO 4406 (c) >19/17/14 A 21/20/16

▲ 22/20/17

Particles >71µm

Oil Cleanliness

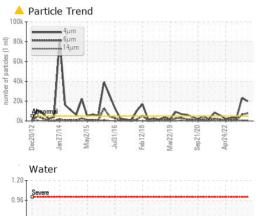
19/17/14

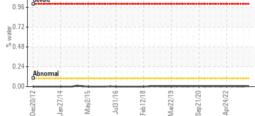
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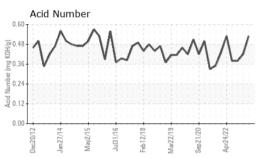


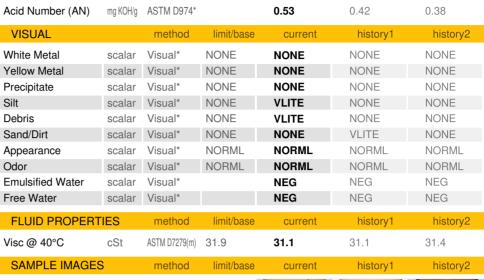
OIL ANALYSIS REPORT

FLUID DEGRADATION









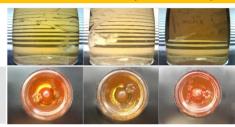
limit/base

current

method

Color

Bottom



history1

history2

