

WEAR CONTAMINATION FLUID CONDITION

Limit/Abn

Current

History1

History2

ABNORMAL SEVERE SEVERE

[02618664]

SCRAPPER HPU CP12

Hydraulic System

{not provided} (--- GAL)

RECOMMENDATION

FLUID CONDITION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		PP	
	Sample Date		Client Info		23 Feb 2024	
	Machine Age	vrs	Client Info		0	
	Oil Age	yrs	Client Info		1	
	Filter Age	vrs	Client Info		1	
	Oil Changed	yıs	Client Info		Not Changd	
	Filter Changed		Client Info		Not Change	
	Sample Status		Client iiiio		SEVERE	
	Sample Status				SEVERE	
WEAR Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.	PQ		ASTM D8184*		0	
	Iron	ppm	ASTM D5185(m)	>20	4 5	
	Chromium	ppm	ASTM D5185(m)	>20	8	
	Nickel	ppm	ASTM D5185(m)	>20	0	
	Titanium	ppm	ASTM D5185(m)		0	
	Silver	ppm	ASTM D5185(m)		0	
	Aluminum	ppm	ASTM D5185(m)	>20	1	
	Lead	ppm	ASTM D5185(m)	>20	<1	
	Copper	ppm	ASTM D5185(m)	>20	2	
	Tin	ppm	ASTM D5185(m)	>20	0	
	Vanadium	ppm	ASTM D5185(m)		0	
	White Metal	scalar	Visual*	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	
					_	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		2	
There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of water present in the oil.	Potassium	ppm	ASTM D5185(m)		<u>^</u> 55	
	Water	%	ASTM D6304*	>0.05	<u> </u>	
	ppm Water	ppm	ASTM D6304*	>500	<u>^</u> 797	
	Particles >4µm		ASTM D7647		100420	
	Particles >6µm		ASTM D7647		22794	
	Particles >14µm		ASTM D7647		299 24	
	Particles >21µm Particles >38µm		ASTM D7647 ASTM D7647	>40	24 5	
	Particles >30µm		ASTM D7647		5 4	
	Oil Cleanliness		ISO 4406 (c)		4 24/22/15	
	Silt	scalar	Visual*	NONE	NONE	
	Debris	scalar	Visual*	NONE	VLITE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	
	Emulsified Water		Visual*	>0.05	NEG	
	Liliuisilieu Walei	Juaidi	viouai	ZU.UJ	NEG	

Sodium

Boron

Barium

Molybdenum

Manganese

Magnesium

Phosphorus

Calcium

Zinc

Sulfur

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm Acid Number (AN) mg KOH/g ASTM D974*

Visc @ 40°C cSt ASTM D7279(m)

ASTM D5185(m)

Test

UOM

Method

indicate a difference in the oil formulation as compared to the reference

oil. Additive levels indicate the addition of a different brand, or type of

recommended limit. The pH level of this fluid is within the acceptable

limits. The reserve alkalinity of this fluid is acceptable. The oil is no

longer serviceable as a result of the abnormal and/or severe wear.

oil. The high AN level of the oil indicates the presence of oxi-

polymerized products. The AN level is much higher than the

9

<1

0

0

0

2

36

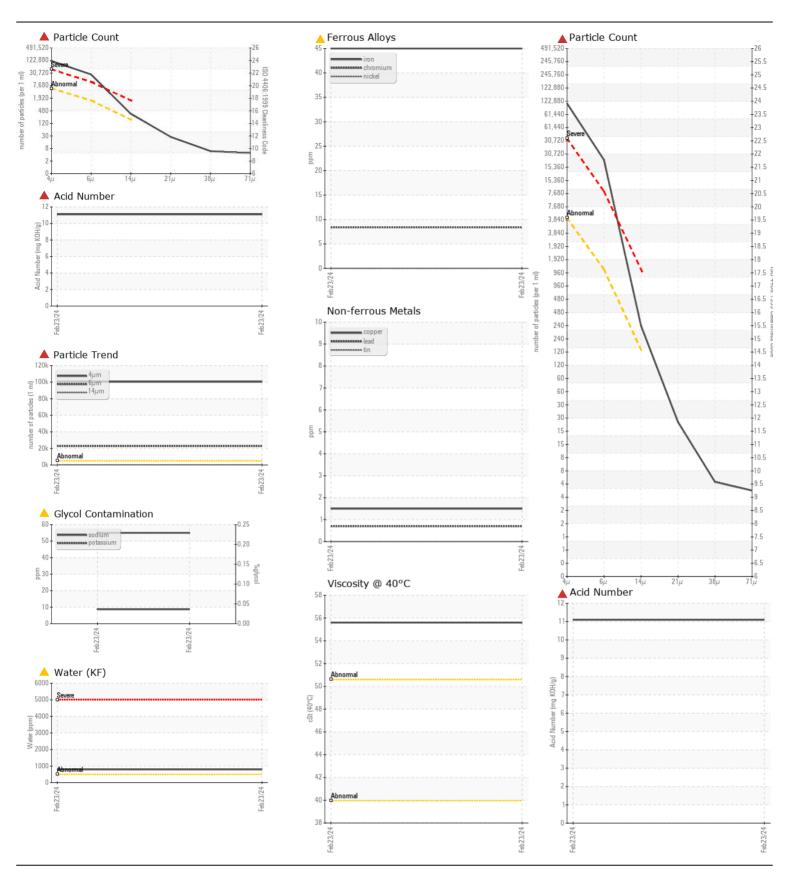
97

5

11.1

811

55.6





ISO 17025:2017 Accredited Laboratory **Laboratory**: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Sample No.**: PP **Received**: 28 Feb 2024

 Lab Number
 : 02618667
 Tested
 : 01 Mar 2024

 Unique Number
 : 5735777
 Diagnosed
 : 01 Mar 2024 - Kevin Marson

Test Package : IND 2 (Additional Tests: KF, pH, PQ, ReserveAlk, 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.

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