

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Ic **68HYDPACK013** Component

Hydraulic System AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS

Recommendation

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. Resample at the next service interval to monitor. 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.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

		0ct2021	Apr2022	Oct2022 May2023	0ct2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0052753	PC0062295	PC0051896
Sample Date		Client Info		31 Oct 2023	02 May 2023	04 Oct 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				NORMAL	ABNORMAL	ABNORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0	<1	<1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	0
Lead	ppm	ASTM D5185(m)	>20	<1	0	<1
Copper	ppm	ASTM D5185(m)	>20	2	2	2
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
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)	5	0	<1	<1
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	5	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	25	<1	<1	<1
Calcium	ppm	ASTM D5185(m)	200	41	42	40
Phosphorus	ppm	ASTM D5185(m)	300	317	342	340
Zinc	ppm	ASTM D5185(m)	370	401	391	387
Sulfur	ppm	ASTM D5185(m)	2500	796	825	830
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	0	<1
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	0	0	0
FLUID CLEANI	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2272	2 3772	12880
Particles >6µm		ASTM D7647	>1300	349	▲ 2095	442
Particles >14µm		ASTM D7647	>160	19	85	3
Particles >21µm		ASTM D7647	>40	4	29	1
Particles >38µm		ASTM D7647	>10	1	2	0
Particles >71µm		ASTM D7647	>3	0	-	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/11	· 22/18/14	▲ 21/16/9
FLUID DEGRA	DAT <u>ION</u>	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.43	0.42	0.46

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Contact/Location: Marc-Andre Marseille - GLEONA



OIL ANALYSIS REPORT

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ASTM D7279(m)

ASTM D7279(m)

ASTM D2270*

VISUAL

White Metal

Yellow Metal

Precipitate

Silt

Debris

Odor

Sand/Dirt

Appearance

Free Water

Visc @ 40°C

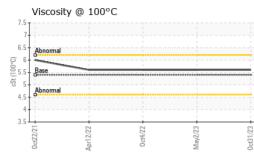
Visc @ 100°C

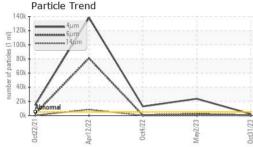
Viscosity Index (VI)

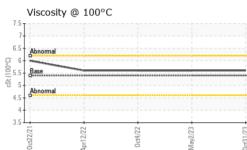
SAMPLE IMAGES

Emulsified Water

FLUID PROPERTIES







38

36

140

120 Î

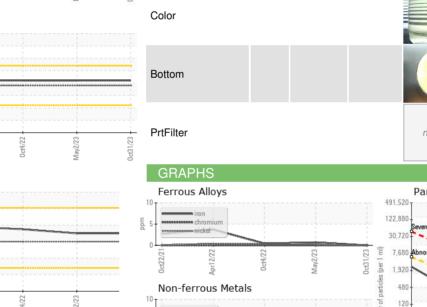
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80

60

40

20





NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NFG

NEG

33.0

5.6

107

NONE

NONE

NONE

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NORML

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NEG

NEG

33.5

5.6

104

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107

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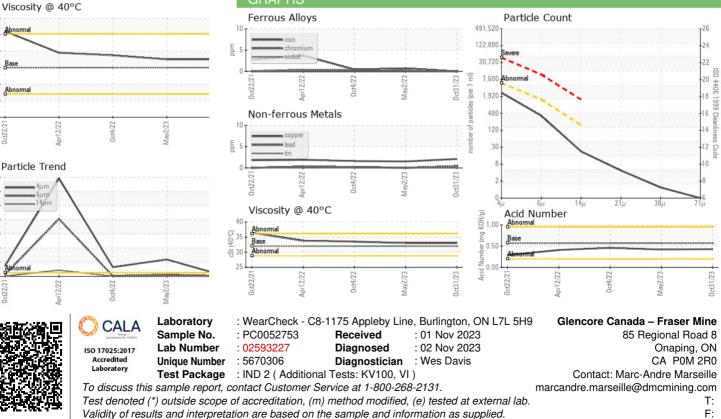
NORML

>0.05

32

5.4

102



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