

Hydraulic System

Component

GT 0701 GT 0701

OIL ANALYSIS REPORT

Sample Rating Trend



history2

HLC0001544

NORMAL

history2

04 Feb 2023 19 Oct 2022

0

0

N/A

0

0

0

0

<1

<1

<1

0

<1

0

0

0

0

0

0 0

0

0

0

<1 0

0

2501

history2

history2

4240

770

37

10

0

0

0.09

19/17/12

history2

history2

0.11

16/14/10

history1

18/16/12

current 0.06

Fluid {not provided} (GAL)						
	SAMPLE INFORM		method	limit/base	14 Jul2022 Oct2022 Feb2023 Current	^{3 Jan2024} history1
A Recommendation	Sample Number		Client Info		HLC0002272	HLC000214
No corrective action is recommended at this time.	Sample Date		Client Info		02 Jan 2024	04 Feb 2023
Resample at the next service interval to monitor.	Machine Age	mths	Client Info		0	0
Wear	Oil Age	mths	Client Info		0	0
All component wear rates are normal.	Oil Changed		Client Info		N/A	N/A
Contamination	Sample Status				ABNORMAL	NORMAL
Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a light	WEAR METALS		method	limit/base	current	history1
concentration of water present in the oil. The	Iron	ppm	ASTM D5185m	>20	0	0
amount and size of particulates present in the	Chromium	ppm	ASTM D5185m	>20	<1	<1
system are acceptable.	Nickel	ppm	ASTM D5185m	>20	0	0
Fluid Condition	Titanium	ppm	ASTM D5185m		0	0
The AN level is acceptable for this fluid. The	Silver	ppm	ASTM D5185m		0	0
condition of the oil is suitable for further service.	Aluminum	ppm	ASTM D5185m	>20	2	0
	Lead	ppm	ASTM D5185m	>20	0	0
	Copper	ppm	ASTM D5185m	>20	0	0
	Tin ppm ASTM D5185	ASTM D5185m	>20	0	0	
	Vanadium	ppm	ASTM D5185m		0	0
	Cadmium	ppm	ASTM D5185m		0	0
	ADDITIVES		method	limit/base	current	history1
	Boron	ppm	ASTM D5185m		0	0
	Barium	ppm	ASTM D5185m		0	0
	Molybdenum	ppm	ASTM D5185m		0	0
	Manganese	ppm	ASTM D5185m		0	0
	Magnesium	ppm	ASTM D5185m		0	<1
	Calcium	ppm	ASTM D5185m		0	2
	Phosphorus	ppm	ASTM D5185m		2795	2613
	Zinc	ppm	ASTM D5185m		0	2
	Sulfur	ppm	ASTM D5185m		0	0
	CONTAMINANTS		method	limit/base	current	history1
	Silicon	ppm	ASTM D5185m	>15	4 55	11
	Sodium	ppm	ASTM D5185m		0	<1
	Potassium	ppm	ASTM D5185m	>20	<1	<1
	Water	%	ASTM D6304	>0.05	<u> </u>	
	ppm Water	ppm	ASTM D6304	>500	A 760	
	FLUID CLEANLIN	ESS	method	limit/base	current	history1
	Particles >4µm		ASTM D7647	>5000	1306	506
	Particles >6µm		ASTM D7647	>1300	343	117
	Particles >14µm		ASTM D7647	>160	39	9
	Particles >21µm		ASTM D7647	>40	11	3
	Particles >38µm		ASTM D7647	>10	1	0
	Particles >71µm		ASTM D7647	>3	0	0
					10/10/10	

Acid Number (AN)

FLUID DEGRADATION

Oil Cleanliness

mg KOH/g ASTM D8045

method

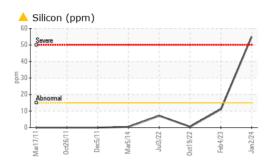
ISO 4406 (c) >19/17/14

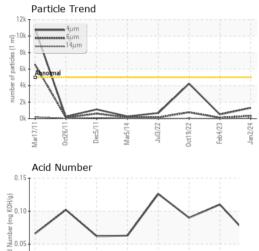
limit/base

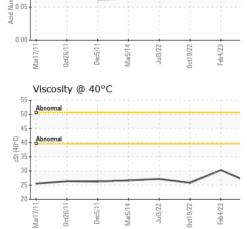


OIL ANALYSIS REPORT



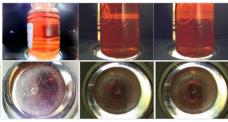




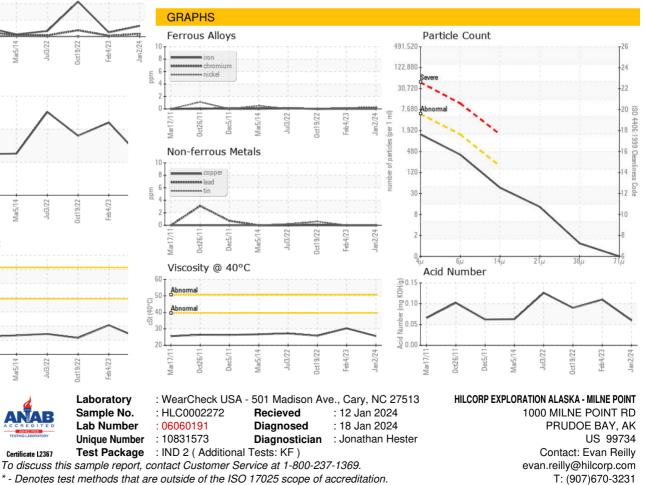


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		25.62	30.3	25.8
SAMPLE IMAGE	S	method	limit/base	current	history1	history2

Color



Bottom



* - 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)

Certificate L2367

Contact/Location: Evan Reilly - BPEMPU

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