

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



RGS 10 - HYDRAULIC

RGS 10 5 GRINDER HYDRAULIC UNIT (S/N 16-2525-0157)

Hydraulic System

CASTROL HYSPIN AWS HYDRAULIC 22 (---

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

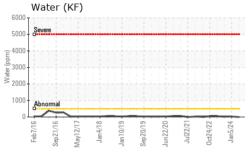
Fluid Condition

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

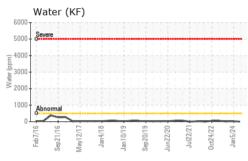
QTS) 50/16 5m/2016 Mm/2017 Jan/2018 Jan/2019 5m/2019 Jan/2020 Jan/2020 Jan/2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0044266	RP0037963	RP0034965
Sample Date		Client Info		29 May 2024	05 Jan 2024	11 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	<1	0
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		2	2	0
Lead	ppm	ASTM D5185m	>20	3	3	2
Copper	ppm	ASTM D5185m		10	11	10
Tin	ppm	ASTM D5185m	>20	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	7	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	0	<1
Calcium	ppm	ASTM D5185m		39	44	41
Phosphorus	ppm	ASTM D5185m		366	353	327
Zinc	ppm	ASTM D5185m		444	450	423
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	3
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	<1	<1
Water	%	ASTM D6304	>0.05	0.00	0.003	0.002
ppm Water	ppm	ASTM D6304	>500	0	29	17.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1518	1218	4478
Particles >6μm		ASTM D7647	>1300	355	337	1129
Particles >14μm		ASTM D7647	>160	27	32	58
Particles >21µm		ASTM D7647	>40	6	9	12
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12	17/16/12	19/17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.27	0.27	0.29

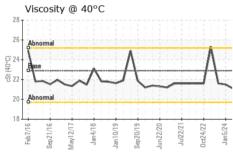


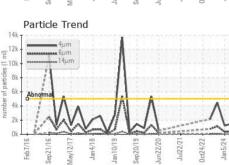
OIL ANALYSIS REPORT



14k 12k	ticle	Trer 4µm 6µm 14µm	nd	1					
10k -	oma	^^	10			٨			Λ
0k Feb7/16	Sep21/16	May12/17	Jan4/18	Jan10/19	Sep20/19	Jun22/20	Jui22/21 # #	Oct24/22 1	Jan5/24







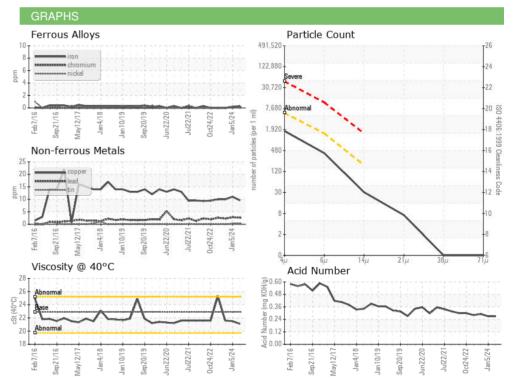
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID DDODEDT	150		1: 1: 0		111	1111
FLUID PROPERT	TES	method				history2

Visc @ 40°C	cSt	ASTM D445	22.9	21.1	21.5	21.6

SAMPLE IMAGES	method	iimit/bas
Color		











Certificate 12367

Laboratory Sample No.

: RP0044266 Lab Number : 06195458 Unique Number : 11057581 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested** : 31 May 2024

Diagnosed : 31 May 2024 - Angela Borella

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

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