

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

RGS 10 - HYDRAULIC

RGS 10 4 GRINDER HYDRAULIC UNIT (S/N 16-2520-0157)

Hydraulic System

CASTROL HYSPIN AWS HYDRAULIC 22 (--- QTS)

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.

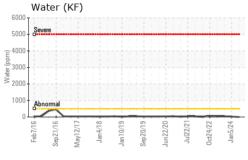
Fluid Condition

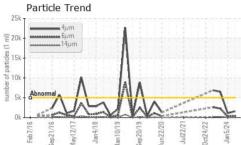
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

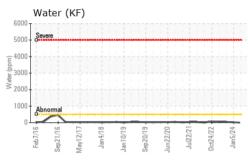
- QTS) b2016 Sep2016 May2017 Jan2018 Jan2019 Jan2020 Jan2020 Jan2020 Jan2020 Jan2020 Jan2020						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0044267	RP0037964	RP0034482
Sample Date		Client Info		29 May 2024	05 Jan 2024	11 Jul 2023
Machine Age	hrs	Client 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	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	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	>20	2	2	0
Lead	ppm	ASTM D5185m	>20	2	2	2
Copper	ppm	ASTM D5185m	>20	1	2	1
Tin	ppm	ASTM D5185m	>20	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	<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		36	41	37
Phosphorus	ppm	ASTM D5185m		385	351	328
Zinc	ppm	ASTM D5185m		460	449	431
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	1	3
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	1
Water	%	ASTM D6304	>0.05	0.000	0.002	0.004
ppm Water	ppm	ASTM D6304	>500	0	25	42.9
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1588	1130	6476
Particles >6µm		ASTM D7647	>1300	378	288	2254
Particles >14µm		ASTM D7647	>160	52	30	193
Particles >21µm		ASTM D7647		18	9	47
Particles >38µm		ASTM D7647	>10	2	0	2
Particles >71μm		ASTM D7647		0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/13	17/15/12	0 20/18/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.31	0.30	0.31

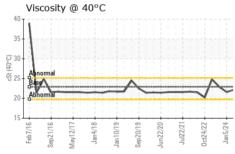


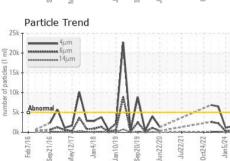
OIL ANALYSIS REPORT











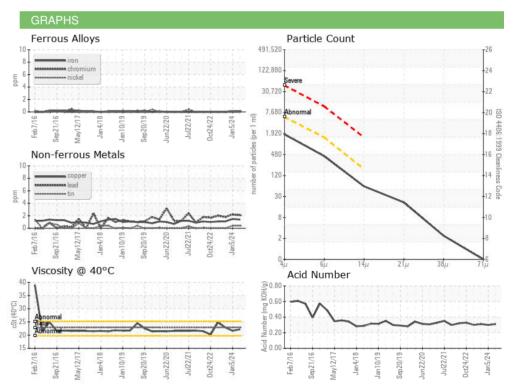
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	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
FILLID DDODEDT	150		11 11 11			1::

Visc @ 40°C	cSt	ASTM D445	22.9	22.2	21.6	22.9

SAMPLE IMAGES	memou		
Color			







: 31 May 2024 - Angela Borella





Certificate 12367

Laboratory Sample No.

: RP0044267 Lab Number : 06195457 Unique Number : 11057580 Test Package : IND 2

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

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

Diagnosed

OUTOKUMPU STAINLESS USA

HWY 43 N CALVERT, AL US 36513

Contact: MARIO JOHNSON Mario.johnson@outokumpu.com T: (251)321-4105

* - 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)

F: x: