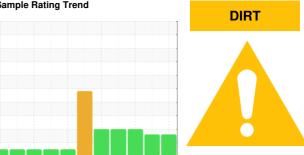


# **OIL ANALYSIS REPORT**

Sample Rating Trend



# GENERAL ELECTRIC MCKENZIE G.S.

Component

**Governor System** 

ESSO TERESSO ISO 68 (160 LTR)

## **DIAGNOSIS**

#### Recommendation

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. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

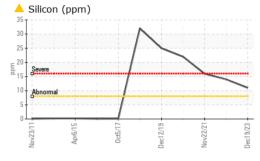
## **Fluid Condition**

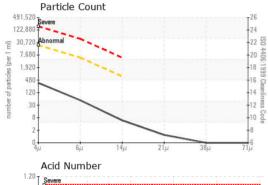
Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

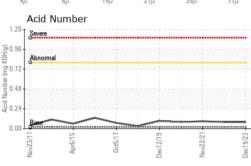
		11012011	7912010	000010 11010001	Dec2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0666785	WC0666776	WC0666778
Sample Date		Client Info		19 Dec 2023	23 Nov 2022	22 Nov 2021
Machine Age	yrs	Client Info		86	85	83
Oil Age	yrs	Client Info		13	12	11
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>50	2	2	2
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>3	<1	0	<1
Lead	ppm	ASTM D5185(m)	>75	28	31	34
Copper	ppm	ASTM D5185(m)	>15	<1	2	2
Tin	ppm	ASTM D5185(m)	>55	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
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)	4.5	0	<1	<1
Barium	ppm	ASTM D5185(m)	0.4	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	0	0	0	0
Calcium	ppm	ASTM D5185(m)	0	1	1	2
Phosphorus	ppm	ASTM D5185(m)	0.7	36	47	<b>4</b> 5
Zinc	ppm	ASTM D5185(m)		5	7	8
Sulfur	ppm	ASTM D5185(m)	1315	1317	1439	1507
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>8	<u> </u>	<u> </u>	<b>▲</b> 16
Sodium	ppm	ASTM D5185(m)		0	<1	0
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1

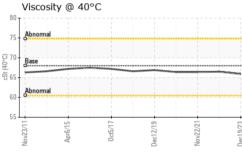


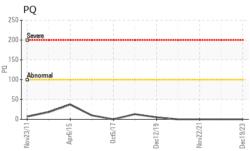
# **OIL ANALYSIS REPORT**











FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	314	1521	3969
Particles >6µm		ASTM D7647	>5000	46	232	420
Particles >14µm		ASTM D7647	>640	5	20	26
Particles >21µm		ASTM D7647	>160	1	7	7
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	15/13/10	18/15/11	19/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	80.0	0.08	0.09
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
<b>Emulsified Water</b>	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68	65.9	66.5	66.4
SAMPLE IMAGES		method	limit/base	current	history1	history2
						93 38 987.
Color						



CALA ISO 17025:2017

Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

**Bottom** 

: WC0666785 : 02605553

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recieved Diagnosed : 5698638

: 03 Jan 2024 Diagnostician : Kevin Marson **Test Package**: IND 2 (Additional Tests: PQ, PrtCount, TAN Man)

: 28 Dec 2023

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.

MPT HYDRO LP P.O. BOX 241 EAGLE RIVER, ON

Contact: FORREST MANN eaglegs@drytel.net T: (807)216-9334

CA POV 1S0