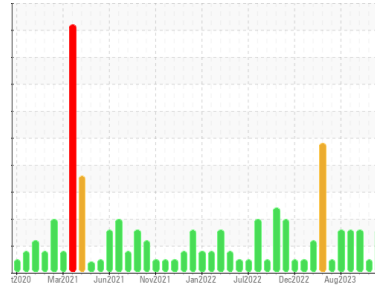




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**(C-FEAK) M13**  
Machine Id  
**71-GG-3300B MAIN POWER GAS GENERATOR B (71-T-3390B) (S/N Maint Plan 22480)**  
Component  
**Jet Turbine**  
Fluid  
**MOBIL JET OIL II (924 LTR)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PP	PP	PP
Sample Date	Client Info	<b>19 Dec 2023</b>	28 Nov 2023	16 Oct 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		<b>ABNORMAL</b>	NORMAL	ATTENTION

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >8	0	0
Chromium	ppm	ASTM D5185(m) >2	0	0
Nickel	ppm	ASTM D5185(m) >2	0	<1
Titanium	ppm	ASTM D5185(m) >2	0	0
Silver	ppm	ASTM D5185(m) >2	0	<1
Aluminum	ppm	ASTM D5185(m) >2	<1	<1
Lead	ppm	ASTM D5185(m) >3	0	0
Copper	ppm	ASTM D5185(m) >3	<1	<1
Tin	ppm	ASTM D5185(m) >2	0	0
Antimony	ppm	ASTM D5185(m)	0	0
Vanadium	ppm	ASTM D5185(m)	0	0
Beryllium	ppm	ASTM D5185(m)	0	0
Cadmium	ppm	ASTM D5185(m)	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	<1	<1	1
Barium	ppm	ASTM D5185(m)	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	0
Magnesium	ppm	ASTM D5185(m)	0	0	0
Calcium	ppm	ASTM D5185(m)	<1	<1	<1
Phosphorus	ppm	ASTM D5185(m)	<b>2800</b>	2828	2856
Zinc	ppm	ASTM D5185(m)	<1	<1	<1
Sulfur	ppm	ASTM D5185(m)	0	0	7
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >8	<1	<1	0
Sodium	ppm	ASTM D5185(m)	<1	0	0
Potassium	ppm	ASTM D5185(m) >20	<1	2	0
Water	%	ASTM D6304* >.1	<b>0.038</b>	0.057	0.043
ppm Water	ppm	ASTM D6304* >1000	<b>388</b>	571	439.6

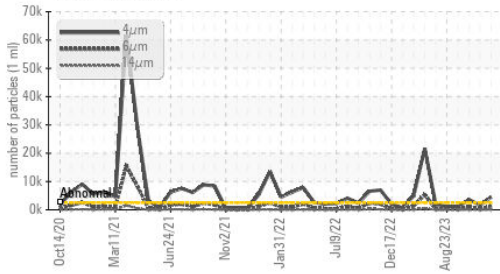
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >2500	▲ <b>4500</b>	1621	▲ 3639
Particles >6µm	ASTM D7647 >640	▲ <b>1320</b>	366	▲ 972
Particles >14µm	ASTM D7647 >80	▲ <b>91</b>	9	▲ 82
Particles >21µm	ASTM D7647 >20	<b>24</b>	2	22
Particles >38µm	ASTM D7647 >4	<b>2</b>	1	5
Particles >71µm	ASTM D7647 >3	<b>1</b>	1	3
Oil Cleanliness	ISO 4406 (c) >18/16/13	▲ <b>19/18/14</b>	18/16/10	▲ 19/17/14

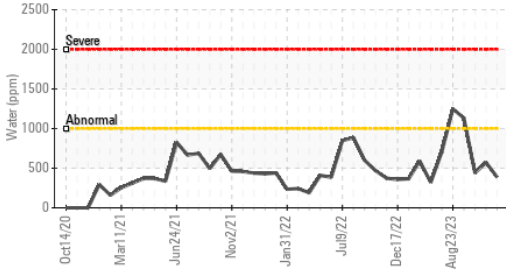


# OIL ANALYSIS REPORT

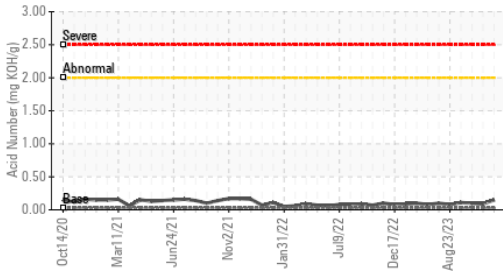
## Particle Trend



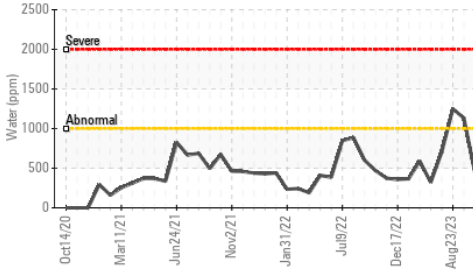
## Water (KF)



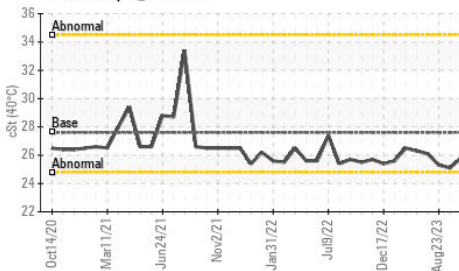
## Acid Number



## Water (KF)



## Viscosity @ 40°C



## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN) mg KOH/g	ASTM D974*	0.03	<b>0.15</b>	0.09	0.10

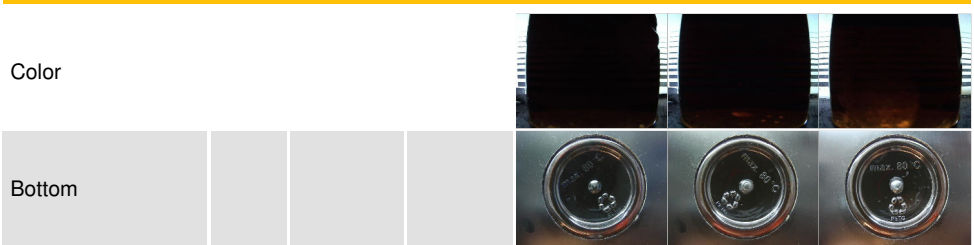
## VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML
Emulsified Water	scalar	Visual*	>.1	<b>NEG</b>	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG

## FLUID PROPERTIES

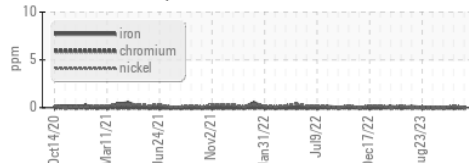
method	limit/base	current	history1	history2		
Visc @ 40°C	cSt	ASTM D7279(m)	27.6	<b>25.9</b>	25.3	25.8

## SAMPLE IMAGES

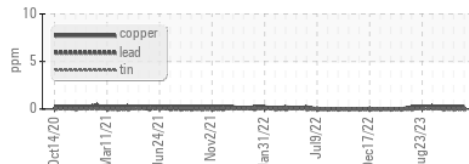


## GRAPHS

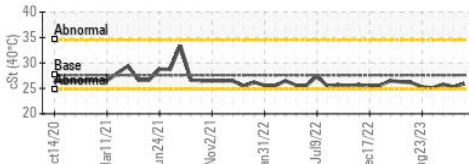
### Ferrous Alloys



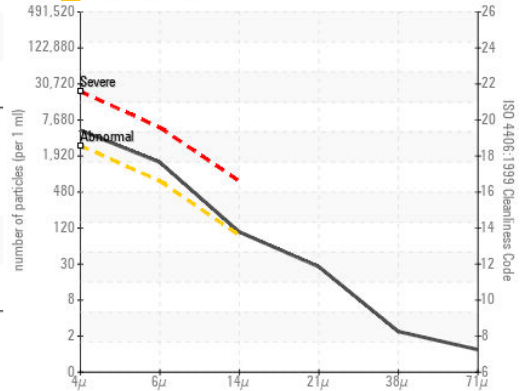
### Non-ferrous Metals



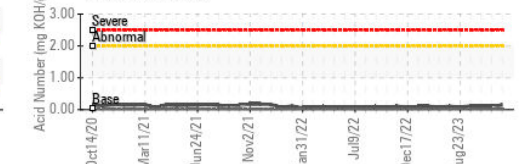
### Viscosity @ 40°C



### Particle Count



### Acid Number



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 HUSKY SEA ROSE /AKER SOLUTIONS  
**Sample No.** : PP  
**Lab Number** : 02609342  
**Unique Number** : 5710428  
**Test Package** : IND 2

**Received** : 17 Jan 2024  
**Diagnosed** : 18 Jan 2024  
**Diagnostician** : Kevin Marson

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Contact: Nick Fewer  
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F: (709)722-8730

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.