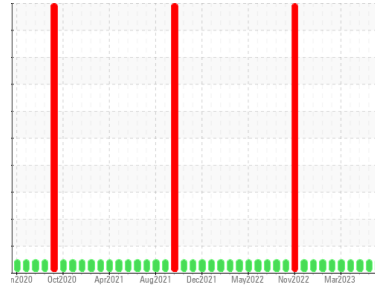




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**M09**  
 Machine Id  
**36-K-1900B HP GAS COMPRESSOR (36-T-1910B) (S/N Maint Plan 22480)**  
 Component  
**Compressor**  
 Fluid  
**MOBIL DTE 846 (5582 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

### Fluid Condition

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

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PP</b>	PP	PP
Sample Date	Client Info	<b>11 Sep 2023</b>	24 Aug 2023	18 Jul 2023
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>50	<b>0</b>	0	<1
Chromium ppm ASTM D5185(m)	>5	<b>0</b>	0	0
Nickel ppm ASTM D5185(m)		<b>0</b>	0	0
Titanium ppm ASTM D5185(m)		<b>0</b>	0	0
Silver ppm ASTM D5185(m)		<b>&lt;1</b>	0	0
Aluminum ppm ASTM D5185(m)	>15	<b>0</b>	0	0
Lead ppm ASTM D5185(m)	>65	<b>&lt;1</b>	0	0
Copper ppm ASTM D5185(m)	>65	<b>&lt;1</b>	<1	0
Tin ppm ASTM D5185(m)	>10	<b>0</b>	0	0
Antimony ppm ASTM D5185(m)		<b>0</b>	0	0
Vanadium ppm ASTM D5185(m)		<b>0</b>	0	0
Beryllium ppm ASTM D5185(m)		<b>0</b>	0	0
Cadmium ppm ASTM D5185(m)		<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)		<b>&lt;1</b>	0	<1
Barium ppm ASTM D5185(m)		<b>&lt;1</b>	0	0
Molybdenum ppm ASTM D5185(m)		<b>0</b>	0	0
Manganese ppm ASTM D5185(m)		<b>0</b>	0	0
Magnesium ppm ASTM D5185(m)		<b>0</b>	0	<1
Calcium ppm ASTM D5185(m)		<b>0</b>	<1	<1
Phosphorus ppm ASTM D5185(m)		<b>1181</b>	1218	1177
Zinc ppm ASTM D5185(m)		<b>&lt;1</b>	2	2
Sulfur ppm ASTM D5185(m)		<b>59</b>	60	106
Lithium ppm ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

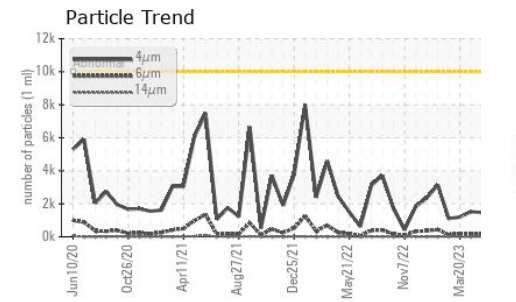
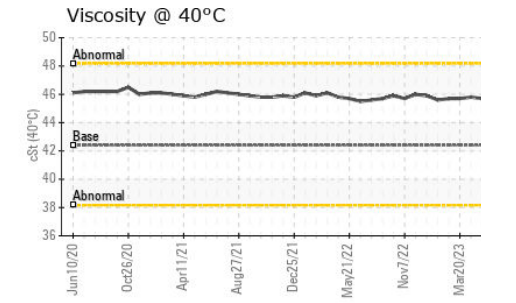
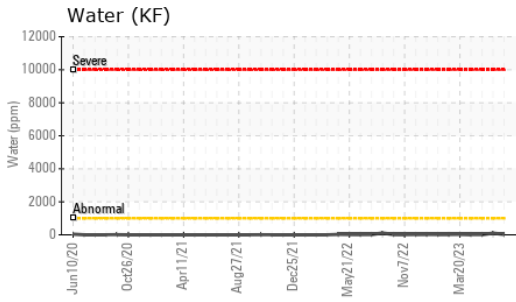
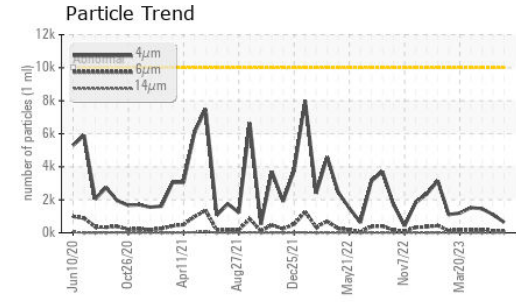
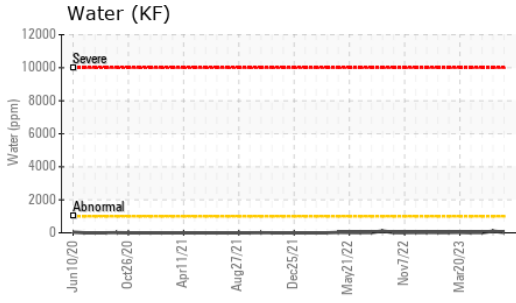
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>35	<b>1</b>	1	1
Sodium ppm ASTM D5185(m)		<b>0</b>	<1	<1
Potassium ppm ASTM D5185(m)	>20	<b>0</b>	<1	<1
Water % ASTM D6304*	>0.1	<b>0.002</b>	0.010	0.001
ppm Water ppm ASTM D6304*	>1000	<b>24.8</b>	103.2	7.2

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	<b>637</b>	1105	1456
Particles >6µm ASTM D7647	>2500	<b>74</b>	134	161
Particles >14µm ASTM D7647	>320	<b>6</b>	12	7
Particles >21µm ASTM D7647	>80	<b>1</b>	4	3
Particles >38µm ASTM D7647	>20	<b>1</b>	0	0
Particles >71µm ASTM D7647	>4	<b>1</b>	0	0
Oil Cleanliness ISO 4406 (c)	>20/18/15	<b>16/13/10</b>	17/14/11	18/15/10



# OIL ANALYSIS REPORT

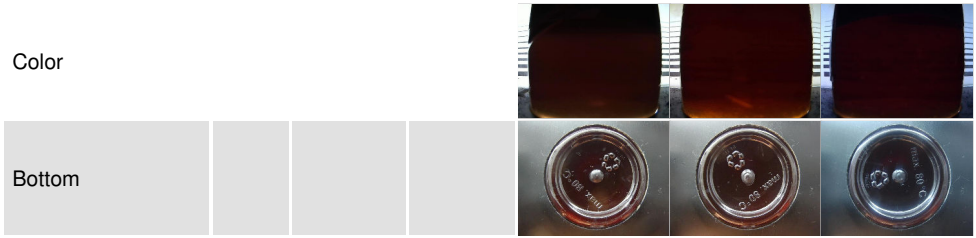


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.22</b>	0.20	0.21

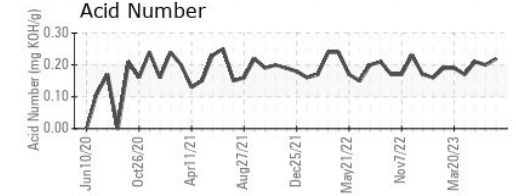
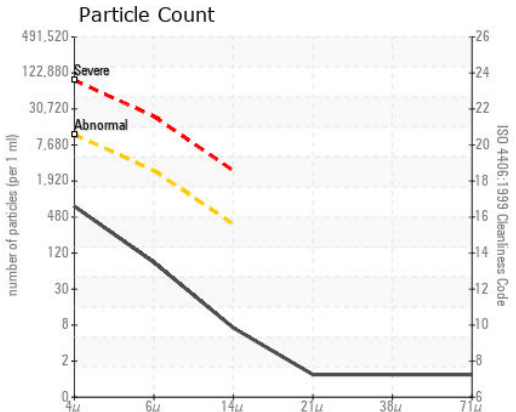
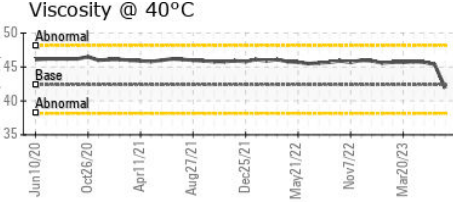
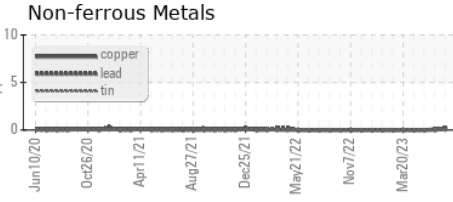
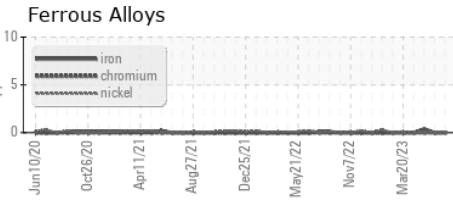
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	.2%	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	42.4	<b>41.9</b>	45.4	45.7

SAMPLE IMAGES		method	limit/base	current	history1	history2
---------------	--	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 HUSKY SEA ROSE /AKER SOLUTIONS  
**Sample No.** : PP **Received** : 24 Oct 2023  
**Lab Number** : 02591457 **Diagnosed** : 25 Oct 2023  
**Unique Number** : 5668536 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF, TAN Man )  
 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.

PO BOX 20  
 ST. JOHN'S, NL  
 CA A1C 6C9  
 Contact: Nick Fewer  
 nick.fewer@akersolutions.com  
 T: (709)757-4582  
 F: (709)722-8730