



OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area

ENGINE ROOM FLOOR

Machine Id

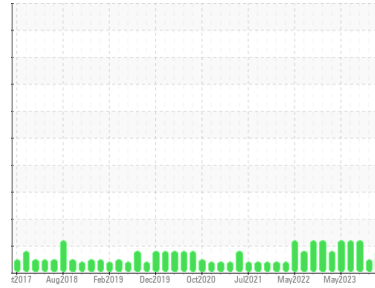
21-GB-6464 PORT MAIN ENGINE GEARBOX AND PITCH CONTROL (S/N Maint Plan 22463)

Component

1 Gearbox

Fluid

MOBIL MOBILGEAR 627 (1000 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.

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		27 Nov 2023	17 Oct 2023	18 Sep 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			ABNORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>150	9	6	8
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		2	2	2
Aluminum	ppm	ASTM D5185(m)	>5	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>65	9	9	8
Copper	ppm	ASTM D5185(m)	>80	10	10	9
Tin	ppm	ASTM D5185(m)	>8	<1	<1	<1
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)		2	2	2
Barium	ppm	ASTM D5185(m)		0	<1	<1
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		<1	0	0
Calcium	ppm	ASTM D5185(m)		25	15	13
Phosphorus	ppm	ASTM D5185(m)		240	234	230
Zinc	ppm	ASTM D5185(m)		18	16	14
Sulfur	ppm	ASTM D5185(m)		5114	5202	5072
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

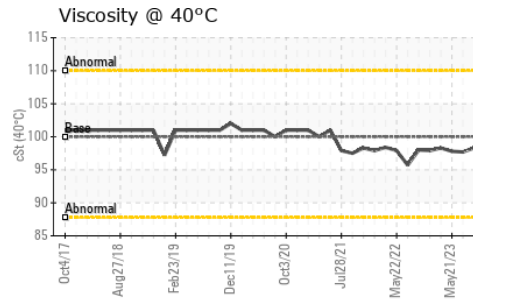
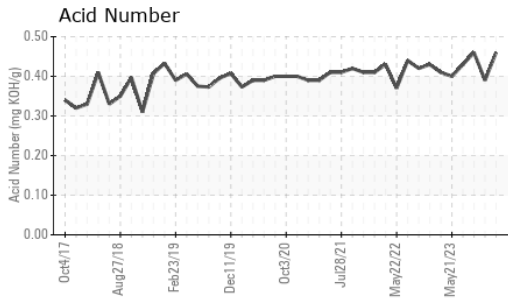
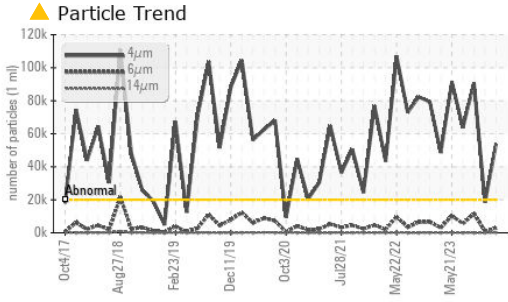
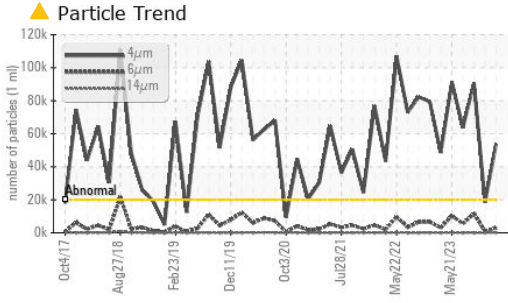
CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	2	0	<1
Sodium	ppm	ASTM D5185(m)		<1	0	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 53824	18455	▲ 90836
Particles >6µm	ASTM D7647	>5000	2869	997	▲ 11471
Particles >14µm	ASTM D7647	>640	136	70	78
Particles >21µm	ASTM D7647	>160	34	20	18
Particles >38µm	ASTM D7647	>40	2	3	2
Particles >71µm	ASTM D7647	>10	0	1	1
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 23/19/14	21/17/13	▲ 24/21/13

OIL ANALYSIS REPORT



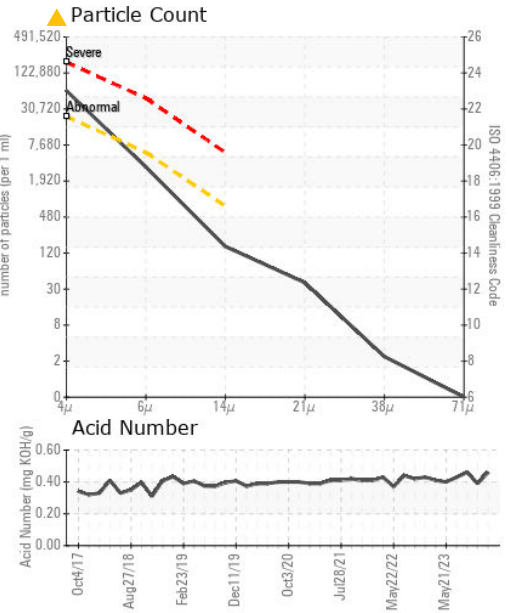
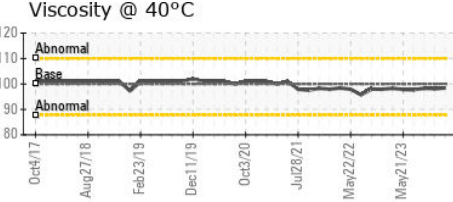
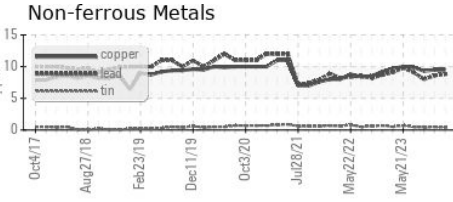
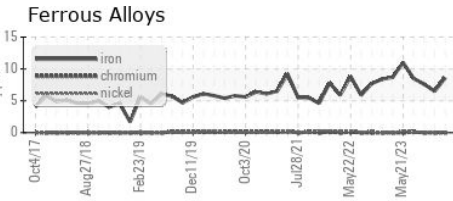
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.46	0.39	0.46

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	VLITE	VLITE	VLITE
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*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	100	98.4	98.1	98.3

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **HUSKY SEA ROSE /AKER SOLUTIONS**
Sample No. : PP **Received** : 09 Jan 2024 **PO BOX 20**
Lab Number : **02607613** **Diagnosed** : 11 Jan 2024 **ST. JOHN'S, NL**
Unique Number : 5708699 **Diagnostician** : Wes Davis **CA A1C 6C9**
Test Package : IND 2 (Additional Tests: TAN Man) **Contact: Maintenance Supervisor**
To discuss this sample report, contact Customer Service at 1-800-268-2131. **maintsuper.searose@huskyenergy.ca**
Test denoted () outside scope of accreditation, (m) method modified, (e) tested at external lab.* **T: x:**
Validity of results and interpretation are based on the sample and information as supplied. **F: x:**