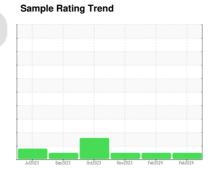


OIL ANALYSIS REPORT



SEAWARD EXPLORER Explorer Component 1 Genset

MOBIL DELVAC 1640 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

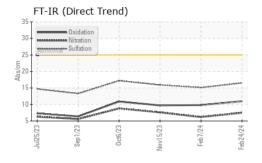
Fluid Condition

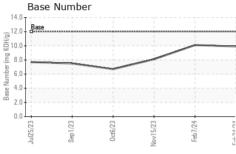
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

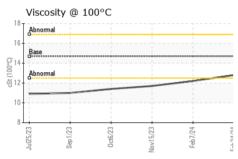
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0886566	WC0859375	WC0859369
Sample Date		Client Info		24 Feb 2024	07 Feb 2024	15 Nov 2023
Machine Age	hrs	Client Info		22882	22690	22394
Oil Age	hrs	Client Info		488	296	510
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	13	9	14
Chromium	ppm	ASTM D5185m		1	1	1
Nickel		ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	76	<1	<1	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m		2	1	<1
	ppm			<1		
Lead	ppm	ASTM D5185m	>17		<1	<1 1
Copper	ppm	ASTM D5185m		1	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	13
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	1	3
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		579	558	1187
Calcium	ppm	ASTM D5185m		3059	2830	1392
Phosphorus	ppm	ASTM D5185m		896	850	755
Zinc	ppm	ASTM D5185m		1010	1006	909
Sulfur	ppm	ASTM D5185m		3302	3145	2649
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	7	10
Sodium	ppm	ASTM D5185m		0	<1	3
Potassium	ppm	ASTM D5185m	>20	2	<1	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.5	6.2	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.5	15.1	15.9
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.0	9.8	9.7
Base Number (BN)	mg KOH/g	ASTM D2896	12	9.9	10.1	8.1
Dase Mullibel (DIM)						



OIL ANALYSIS REPORT



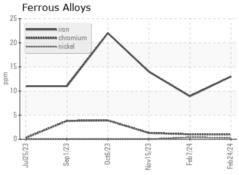


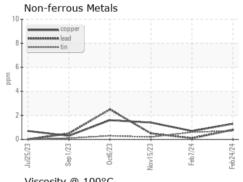


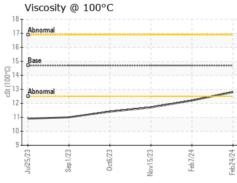
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

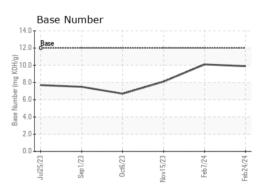
FLUID PROPERTIES		method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.7	12.8	12.2	11.7

GRAPHS













Laboratory Sample No.

: WC0886566 Lab Number : 06155177 Unique Number : 10990600

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Apr 2024 **Tested** Diagnosed

: 22 Apr 2024 : 22 Apr 2024 - Wes Davis

SEAWARD SERVICES 222 PEARL ST NEW ALBANY, IN US 47150 Contact: PETER CHARBONNET

Test Package : MAR 2 Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

PCHARBONNET@HMS-SEAWARD.COM T:

* - 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)

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