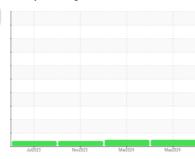


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



HEB MLU1
Component Inboard Pump

{not provided} (--- GAL)

DIAGNOSIS

Machine Id

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

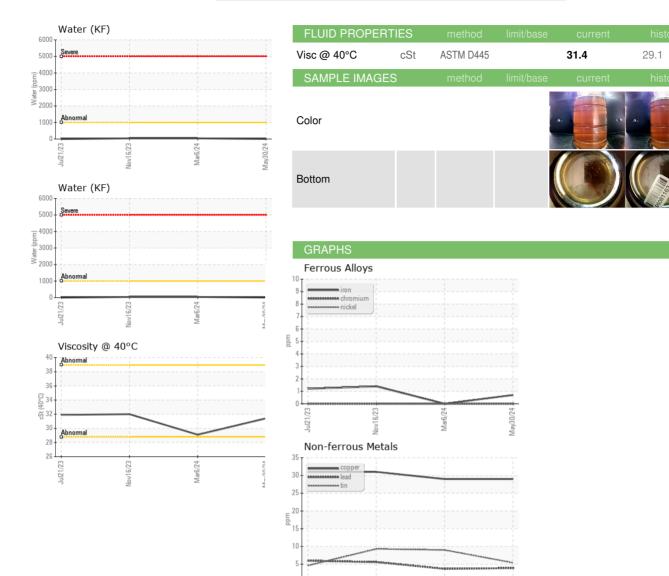
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0036060	RP0039981	RP0033139
Sample Date		Client Info		30 May 2024	06 Mar 2024	16 Nov 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				NORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	<1	0	1
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	0	0	0
Lead	ppm	ASTM D5185m	>12	4	4	6
Copper	ppm	ASTM D5185m	>30	29	29	31
Tin	ppm	ASTM D5185m	>9	5	9	9
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		17	23	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		70	67	58
Zinc	ppm	ASTM D5185m		64	54	50
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	3	3	5
Sodium	ppm	ASTM D5185m		4	<1	4
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	AOTH DOOG				
\A/-+	, 0	ASTM D6304	>.1	0.001	0.003	0.003
ppm vvater	ppm	ASTM D6304 ASTM D6304		0.001 1	0.003	0.003
ppm water FLUID DEGRADA	ppm			0.001 1 current		37
ppm Water FLUID DEGRADA Acid Number (AN)	ppm	ASTM D6304	>1000	1	39	37
FLUID DEGRADA	ppm TION	ASTM D6304 method	>1000	1 current	39 history1	37 history2
FLUID DEGRADA Acid Number (AN) VISUAL	ppm TION	ASTM D6304 method ASTM D8045	>1000 limit/base	1 current	39 history1 0.11	37 history2 0.07
FLUID DEGRADA Acid Number (AN) VISUAL White Metal	ppm TION mg KOH/g	ASTM D6304 method ASTM D8045 method	>1000 limit/base	1 current 0.10 current	39 history1 0.11 history1	37 history2 0.07 history2
FLUID DEGRADA Acid Number (AN) VISUAL White Metal Yellow Metal	ppm TION mg KOH/g scalar	method ASTM D8045 method *Visual	>1000 limit/base limit/base	1 current 0.10 current NONE	39 history1 0.11 history1 NONE	37 history2 0.07 history2 LIGHT
FLUID DEGRADA Acid Number (AN) VISUAL White Metal Yellow Metal Precipitate	ppm TION mg KOH/g scalar scalar	ASTM D6304 method ASTM D8045 method *Visual *Visual	>1000 limit/base limit/base NONE NONE	1 current 0.10 current NONE	39 history1 0.11 history1 NONE NONE	37 history2 0.07 history2 LIGHT NONE
FLUID DEGRADA Acid Number (AN) VISUAL White Metal Yellow Metal Precipitate Silt	ppm TION mg KOH/g scalar scalar scalar	method ASTM D8045 method *Visual *Visual *Visual	>1000 limit/base limit/base NONE NONE NONE	1 current 0.10 current NONE NONE NONE	history1 0.11 history1 NONE NONE NONE	history2 0.07 history2 LIGHT NONE NONE
FLUID DEGRADA Acid Number (AN) VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm TION mg KOH/g scalar scalar scalar scalar	ASTM D6304 method ASTM D8045 method *Visual *Visual *Visual *Visual	>1000 limit/base limit/base NONE NONE NONE	1 current 0.10 current NONE NONE NONE NONE NONE	39 history1 0.11 history1 NONE NONE NONE NONE	history2 0.07 history2 LIGHT NONE NONE
FLUID DEGRADA Acid Number (AN) VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm TION mg KOH/g scalar scalar scalar scalar scalar	ASTM D6304 method ASTM D8045 method *Visual *Visual *Visual *Visual *Visual *Visual	>1000 limit/base limit/base NONE NONE NONE NONE	1 current 0.10 current NONE NONE NONE NONE LIGHT	39 history1 0.11 history1 NONE NONE NONE NONE LIGHT	37 history2 0.07 history2 LIGHT NONE NONE NONE NONE
FLUID DEGRADA Acid Number (AN) VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm TION mg KOH/g scalar scalar scalar scalar scalar scalar	ASTM D6304 method ASTM D8045 method *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>1000 limit/base limit/base NONE NONE NONE NONE NONE NONE NONE	1 current 0.10 current NONE NONE NONE NONE LIGHT NONE	39 history1 0.11 history1 NONE NONE NONE NONE LIGHT NONE	history2 0.07 history2 LIGHT NONE NONE NONE NONE NONE NONE
FLUID DEGRADA Acid Number (AN)	ppm TION mg KOH/g scalar scalar scalar scalar scalar scalar scalar	method ASTM D8045 method *Visual	>1000 limit/base NONE NONE NONE NONE NONE NONE NONE NORML	1 current 0.10 current NONE NONE NONE NONE NONE NONE LIGHT NONE NORML	39 history1 0.11 history1 NONE NONE NONE NONE NONE NONE NONE LIGHT NONE NORML	37 history2 0.07 history2 LIGHT NONE NONE NONE NONE NONE NONE NONE NON



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: RP0036060 Lab Number : 06202838 Unique Number : 11070299

₹ 32

26

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Viscosity @ 40°C

Tested Test Package : IND 2

Received : 07 Jun 2024

0.00

: 10 Jun 2024 Diagnosed : 10 Jun 2024 - Don Baldridge **ENERGY TRANSFER - HEBRON**

HEBRON, KY US 41048 Contact: Service Manager

32.0

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

Report Id: ENEHEB [WUSCAR] 06202838 (Generated: 06/10/2024 13:41:15) Rev: 1

Contact/Location: Service Manager - ENEHEB

Acid Number

T:

F: