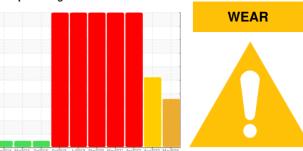


GREASE ANALYSIS

Sample Rating Trend



Machine Id

TURBINA 08 - FRONT BEARING (S/N 101295) Component Grease

KLUBER KLUBERPLEX BEM 41-141 (--- LTR)

υ	IA	GI	ИC	JS	15

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates appear stable.

Grease Condition

The condition of the grease is acceptable for the time in service.

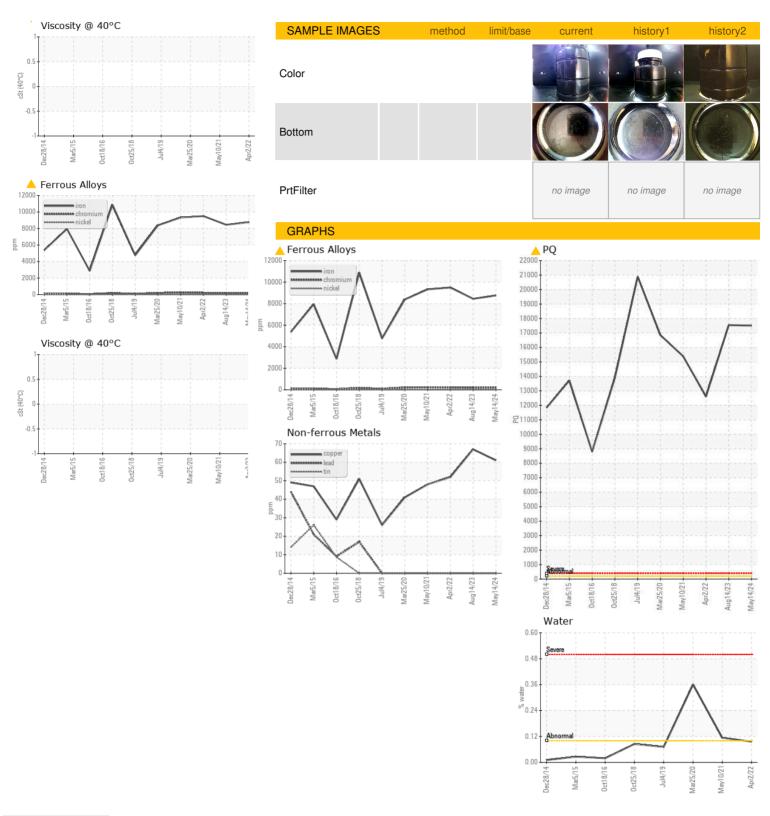
Contaminants

There is no indication of any contamination in the grease.

R)				019 Mar2020 May2021 Apr2022 Aug2		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06194914	WC0831523	WC05582726
Sample Date		Client Info		14 May 2024	14 Aug 2023	02 Apr 2022
Machine Age	yrs	Client Info		12	11	6
Grease Age	yrs	Client Info		1	1	0
Grease Serviced		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	ABNORMAL	SEVERE
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>200	17505	<u>17546</u>	1 2606
Iron	ppm	ASTM D5185m	>250	A 8761	8449	4 9501
Chromium	ppm	ASTM D5185m	>10	190	<u> </u>	1 213
Nickel	ppm	ASTM D5185m	>5	0	0	1
Cadmium	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		2	2	2
Vanadium	ppm	ASTM D5185m		2	2	1
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>75	61	67	52
Tin	ppm	ASTM D5185m	>5	0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
	ррпп					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	limit/base	215	211	221
Boron Magnesium	ppm	ASTM D5185m ASTM D5185m	limit/base	215 2	211	221 5
Boron Magnesium Manganese	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	IImit/base	215 2 45	211 3 42	221 5 52
Boron Magnesium Manganese Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IImit/base	215 2 45 3612	211 3 42 3005	221 5 52 2371
Boron Magnesium Manganese Molybdenum Phosphorus	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IImit/base	215 2 45 3612 608	211 3 42 3005 534	221 5 52 2371 436
Boron Magnesium Manganese Molybdenum Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IImit/base	215 2 45 3612	211 3 42 3005	221 5 52 2371
Boron Magnesium Manganese Molybdenum Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IImitroase	215 2 45 3612 608	211 3 42 3005 534	221 5 52 2371 436
Boron Magnesium Manganese Molybdenum Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	215 2 45 3612 608 308	211 3 42 3005 534 207	221 5 52 2371 436 181
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		215 2 45 3612 608 308	211 3 42 3005 534 207	221 5 52 2371 436 181
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO/	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		215 2 45 3612 608 308 	211 3 42 3005 534 207 	221 5 52 2371 436 181
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m MEthod ASTM D5185m		215 2 45 3612 608 308 current	211 3 42 3005 534 207 history1	221 5 52 2371 436 181 history2
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO/ Aluminum Barium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m		215 2 45 3612 608 308 current 0	211 3 42 3005 534 207 history1 1 0	221 5 52 2371 436 181 history2 12
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO Aluminum Barium Calcium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m		215 2 45 3612 608 308 current 0 0 129	211 3 42 3005 534 207 history1 1 0 142	221 5 52 2371 436 181 history2 12 1 208
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO/ Aluminum Barium Calcium Sodium	ppm	ASTM D5185m		215 2 45 3612 608 308 current 0 0 129 30	211 3 42 3005 534 207 history1 1 0 142 20	221 5 52 2371 436 181 history2 12 1 208 24
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO Aluminum Barium Calcium Sodium Lithium	ppm	ASTM D5185m		215 2 45 3612 608 308 current 0 0 129 30 2808	211 3 42 3005 534 207 history1 1 0 142 20 2804	221 5 52 2371 436 181 history2 12 1 208 24 2258
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO Aluminum Barium Calcium Sodium Lithium Sulfur	ppm	ASTM D5185m	limit/base	215 2 45 3612 608 308 current 0 0 129 30 2808 6207	211 3 42 3005 534 207 history1 1 0 142 20 2804 6276	221 5 52 2371 436 181 history2 12 1 208 24 2258 6395
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS	ppm	ASTM D5185m	limit/base	215 2 45 3612 608 308 current 0 0 129 30 2808 6207 current	211 3 42 3005 534 207 history1 1 0 142 20 2804 6276 history1	221 5 52 2371 436 181 history2 12 1 208 24 2258 6395 history2
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS	ppm	ASTM D5185m	limit/base	215 2 45 3612 608 308 current 0 0 129 30 2808 6207 current 433	211 3 42 3005 534 207 history1 1 0 142 20 2804 6276 history1 602	221 5 52 2371 436 181 history2 12 1 208 24 2258 6395 history2
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS Silicon Potassium	ppm	ASTM D5185m	limit/base limit/base >150	215 2 45 3612 608 308 current 0 0 129 30 2808 6207 current 433 6	211 3 42 3005 534 207 history1 1 0 142 20 2804 6276 history1 602 2	221 5 52 2371 436 181 history2 12 1 208 24 2258 6395 history2 204 3
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOM Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS Silicon Potassium GREASE CONDI	ppm	ASTM D5185m MEthod ASTM D5185m METHOD	limit/base limit/base >150 limit/base	215 2 45 3612 608 308 current 0 0 129 30 2808 6207 current 433 6 current	211 3 42 3005 534 207 history1 1 0 142 20 2804 6276 history1 ▲ 602 2 history1	221 5 52 2371 436 181 history2 12 1 208 24 2258 6395 history2 ▲ 204 3 history2



GREASE ANALYSIS







Certificate 12367

Laboratory Sample No.

: WC06194914 Lab Number : 06194914

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 May 2024

Tested : 13 Jun 2024 Diagnosed : 13 Jun 2024 - Doug Bogart

EOLO DE NICARAGUA S.A. DEL SEMAFORO DEL CLUB TERRAZA, 1 CUADRA AL SUR MANAGUA, ZZ NI

Contact: Rafael Bermudez

Unique Number : 11057037 Test Package : GRS 1 (Additional Tests: KV40, SCREEN) 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)

Contact/Location: Rafael Bermudez - EOLOMAN

T:

F: