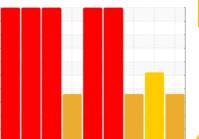


GREASE ANALYSIS

Sample Rating Trend





Machine Id

TURBINA 05 - FRONT BEARING (S/N 101182)

Grease

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

DIAGNOSIS

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.

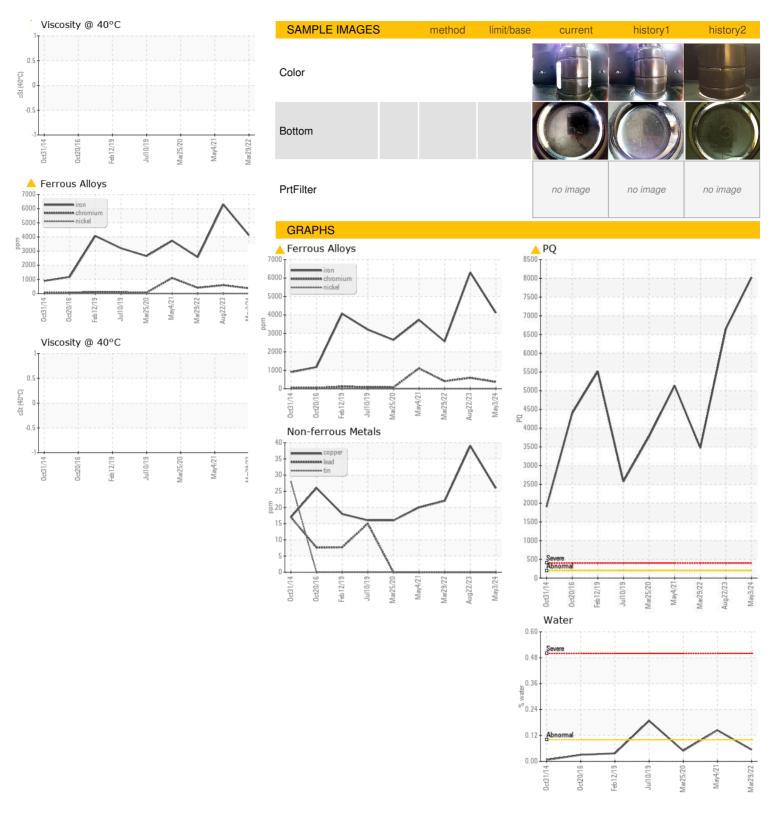
Contaminants

There is no indication of any contamination in the grease.

n)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0881150	WC0505296	WC05582728
Sample Date		Client Info		03 May 2024	22 Aug 2023	29 Mar 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	MARGINAL
CONTAMINATION	V	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	8023	△ 6654	▲ 3474
Iron	ppm	ASTM D5185m	>250	<u>4119</u>	<u>▲</u> 6297	<u>\$\text{2566}\$</u>
Chromium	ppm	ASTM D5185m	>10	△ 369	<u></u> 591	<u>407</u>
Nickel	ppm	ASTM D5185m	>5	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		1	2	<1
Vanadium	ppm	ASTM D5185m		2	2	<1
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>75	26	39	22
Tin	ppm	ASTM D5185m	>5	0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
ADDITIVES		ام م مالح مص	Physical Physics and a con-			biotom/0
ADDITIVEO		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	limit/base	219	history1 410	215
Boron Magnesium	ppm	ASTM D5185m ASTM D5185m	limit/base	219 0	410	215
Boron Magnesium Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	ilmit/base	219 0 28	410 1 40	215 0 20
Boron Magnesium Manganese Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IImit/base	219 0 28 4390	410 1 40 6296	215 0 20 3016
Boron Magnesium Manganese Molybdenum Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IImit/base	219 0 28 4390 620	410 1 40 6296 1056	215 0 20 3016 586
Boron Magnesium Manganese Molybdenum Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IImit/base	219 0 28 4390	410 1 40 6296 1056 375	215 0 20 3016 586 125
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IIMIVoase	219 0 28 4390 620	410 1 40 6296 1056	215 0 20 3016 586
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	219 0 28 4390 620	410 1 40 6296 1056 375	215 0 20 3016 586 125
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		219 0 28 4390 620 394	410 1 40 6296 1056 375 history1	215 0 20 3016 586 125 history2
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium	ppm ppm ppm ppm ppm ppm	ASTM D5185m		219 0 28 4390 620 394 current 0 8	410 1 40 6296 1056 375 history1 0 17	215 0 20 3016 586 125 history2 9
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m		219 0 28 4390 620 394 current 0 8 118	410 1 40 6296 1056 375 history1 0 17 196	215 0 20 3016 586 125 history2 9 10 125
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium	ppm	ASTM D5185m		219 0 28 4390 620 394 current 0 8 118 32	410 1 40 6296 1056 375 history1 0 17 196 70	215 0 20 3016 586 125 history2 9 10 125 21
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium	ppm	ASTM D5185m		219 0 28 4390 620 394 current 0 8 118 32 3247	410 1 40 6296 1056 375 history1 0 17 196 70 3642	215 0 20 3016 586 125 history2 9 10 125 21 2444
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur	ppm	ASTM D5185m		219 0 28 4390 620 394 current 0 8 118 32	410 1 40 6296 1056 375 history1 0 17 196 70	215 0 20 3016 586 125 history2 9 10 125 21
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium	ppm	ASTM D5185m		219 0 28 4390 620 394 current 0 8 118 32 3247 6347 current	410 1 40 6296 1056 375 history1 0 17 196 70 3642	215 0 20 3016 586 125 history2 9 10 125 21 2444
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur	ppm	ASTM D5185m METHOD METHOD ASTM D5185m	limit/base	219 0 28 4390 620 394 current 0 8 118 32 3247 6347 current 416	410 1 40 6296 1056 375 history1 0 17 196 70 3642 12163 history1 1521	215 0 20 3016 586 125 history2 9 10 125 21 2444 6231 history2 82
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS	ppm	ASTM D5185m	limit/base	219 0 28 4390 620 394 current 0 8 118 32 3247 6347 current	410 1 40 6296 1056 375 history1 0 17 196 70 3642 12163 history1	215 0 20 3016 586 125 history2 9 10 125 21 2444 6231 history2
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS	ppm	ASTM D5185m METHOD METHOD ASTM D5185m	limit/base	219 0 28 4390 620 394 current 0 8 118 32 3247 6347 current 416	410 1 40 6296 1056 375 history1 0 17 196 70 3642 12163 history1 1521	215 0 20 3016 586 125 history2 9 10 125 21 2444 6231 history2 82
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS Silicon Potassium	ppm	ASTM D5185m	limit/base limit/base >150	219 0 28 4390 620 394 current 0 8 118 32 3247 6347 current 416 6	410 1 40 6296 1056 375 history1 0 17 196 70 3642 12163 history1 ▲ 521 15	215 0 20 3016 586 125 history2 9 10 125 21 2444 6231 history2 82 3
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS Silicon Potassium GREASE CONDIT	ppm	ASTM D5185m Method ASTM D5185m Method	limit/base limit/base >150 limit/base	219 0 28 4390 620 394 current 0 8 118 32 3247 6347 current 416 6 current	410 1 40 6296 1056 375 history1 0 17 196 70 3642 12163 history1 ▲ 521 15 history1	215 0 20 3016 586 125 history2 9 10 125 21 2444 6231 history2 82 3 history2



GREASE ANALYSIS







Laboratory Sample No.

Lab Number : 06194938

: WC0881150

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

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

: 29 May 2024

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

Contact: Rafael Bermudez

Certificate 12367

Unique Number : 11057061 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)

F:

Report Id: EOLOMAN [WUSCAR] 06194938 (Generated: 06/15/2024 09:08:29) Rev: 1

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