

GREASE ANALYSIS

Sample Rating Trend

NORMAL

Machine Id

TURBINA 08 - REAR BEARING (S/N 101295) Grease

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

Recommendation

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

Wear

All component wear rates are normal.

Grease Condition

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

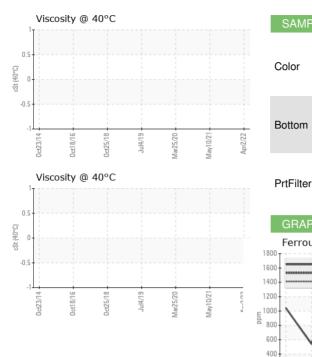
Contaminants

There is no indication of any contamination in the grease.

R)		Oct2014 Oct	2016 Oct2018 Jul2019	Mar2020 May2021 Apr2022 Aug202	3 May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06194913	WC0831524	WC05582732
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				NORMAL	ABNORMAL	NORMAL
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	88	76	59
Iron	ppm	ASTM D5185m	>250	542	560	760
Chromium	ppm	ASTM D5185m	>10	28	98	23
Nickel	ppm	ASTM D5185m	>5	0	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	1	<1
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>75	38	69	22
Tin	ppm	ASTM D5185m	>5	0	0	0
Silver	ppm	ASTM D5185m	>5	0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m		184	100	219
Boron	ppm	AGTIM DJT0JIII		104	189	219
Magnesium	ppm	ASTM D5185m		0	0	0
Magnesium Manganese				-		
Magnesium	ppm	ASTM D5185m		0	0	0
Magnesium Manganese	ppm ppm	ASTM D5185m ASTM D5185m		0 6	0 10	0
Magnesium Manganese Molybdenum	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 6 2084	0 10 3314	0 9 2434
Magnesium Manganese Molybdenum Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 6 2084 549	0 10 3314 531	0 9 2434 451
Magnesium Manganese Molybdenum Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 6 2084 549	0 10 3314 531	0 9 2434 451 152
Magnesium Manganese Molybdenum Phosphorus Zinc Antimony	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 6 2084 549 222 	0 10 3314 531 242 history1 0	0 9 2434 451 152
Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method	limit/base	0 6 2084 549 222 current	0 10 3314 531 242 history1	0 9 2434 451 152 history2
Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	limit/base	0 6 2084 549 222 current 0	0 10 3314 531 242 history1 0	0 9 2434 451 152 history2 8
Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 6 2084 549 222 current 0 8	0 10 3314 531 242 history1 0 10	0 9 2434 451 152 history2 8 9
Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 6 2084 549 222 current 0 8 8 85	0 10 3314 531 242 history1 0 10 116	0 9 2434 451 152 history2 8 9 185
Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 6 2084 549 222 current 0 8 8 85 19	0 10 3314 531 242 history1 0 10 116 22	0 9 2434 451 152 history2 8 9 185 19
Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 6 2084 549 222 current 0 8 85 19 2030	0 10 3314 531 242 history1 0 10 116 22 2956	0 9 2434 451 152 history2 8 9 185 19 2165
Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m		0 6 2084 549 222 current 0 8 8 85 19 2030 5353	0 10 3314 531 242 history1 0 10 116 22 2956 5612	0 9 2434 451 152 history2 8 9 185 19 2165 6332
Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base	0 6 2084 549 222 Current 0 8 85 19 2030 5353 current	0 10 3314 531 242 history1 0 10 10 116 22 2956 5612 bistory1	0 9 2434 451 152 history2 8 9 185 19 2165 6332 history2
Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base	0 6 2084 549 222 <i>current</i> 0 8 8 85 19 2030 5353 2030 5353	0 10 3314 531 242 history1 0 10 10 116 22 2956 5612 2956 5612 history1 ▲ 340	0 9 2434 451 152 history2 8 9 185 19 2165 6332 history2 45
Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS Silicon Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >150	0 6 2084 549 222 Current 0 8 8 5 5 19 2030 5353 Current 437 4	0 10 3314 531 242 history1 0 10 10 116 22 2956 5612 12 history1 ▲ 340 2	0 9 2434 451 152 history2 8 9 185 19 2165 6332 history2 45 2
Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS Silicon Potassium GREASE CONDI	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base	0 6 2084 549 222 <i>current</i> 0 8 8 85 19 2030 5353 <i>current</i> 437 4	0 10 3314 531 242 history1 0 10 10 116 22 2956 5612 2956 5612 history1 ▲ 340 2 history1	0 9 2434 451 152 history2 8 9 185 19 2165 6332 history2 45 2



GREASE ANALYSIS



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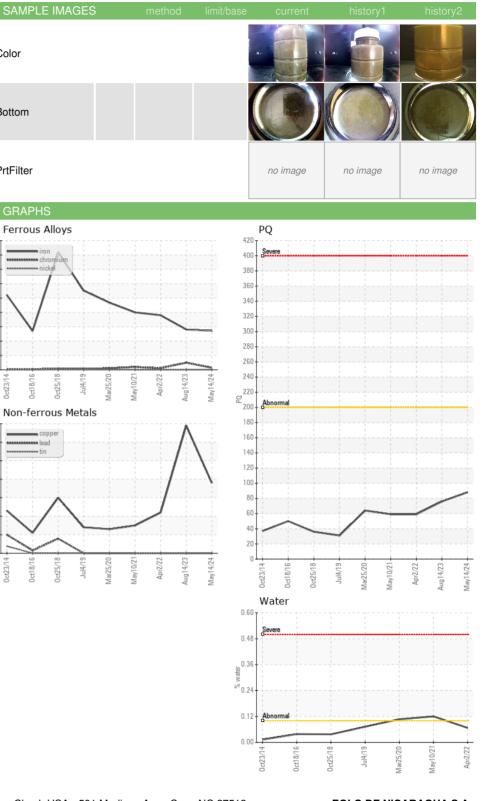
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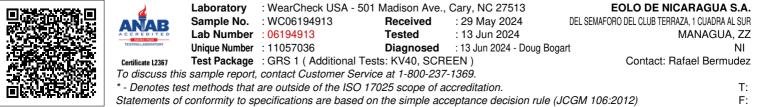
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