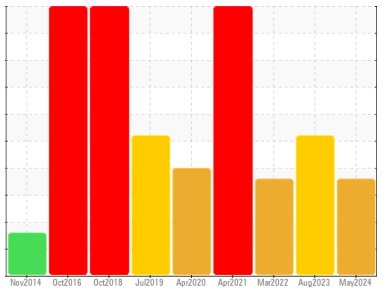
GREASE ANALYSIS

Sample Rating Trend



WEAR

Machine Id
TURBINA 18 - FRONT BEARING (S/N 101292)
Component
Grease
Fluid
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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0881119**	WC0419932	WC05582758
Sample Date		Client Info		**03 May 2024**	22 Aug 2023	24 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	ABNORMAL

CONTAMINATION		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	▲ **18688**	▲ 18267	▲ 15915
Iron	ppm	ASTM D5185m	>250	▲ **8409**	▲ 8432	▲ 7183
Chromium	ppm	ASTM D5185m	>10	▲ **193**	▲ 177	▲ 94
Nickel	ppm	ASTM D5185m	>5	**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0
Titanium	ppm	ASTM D5185m		**2**	2	2
Vanadium	ppm	ASTM D5185m		**2**	1	<1
Lead	ppm	ASTM D5185m	>25	**0**	0	0
Copper	ppm	ASTM D5185m	>75	**24**	23	18
Tin	ppm	ASTM D5185m	>5	**0**	0	0
Silver	ppm	ASTM D5185m	>5	**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**193**	206	188
Magnesium	ppm	ASTM D5185m		**<1**	1	2
Manganese	ppm	ASTM D5185m		**44**	42	38
Molybdenum	ppm	ASTM D5185m		**3401**	3027	2169
Phosphorus	ppm	ASTM D5185m		**594**	530	365
Zinc	ppm	ASTM D5185m		**284**	187	131
Antimony	ppm	ASTM D5185m		**---**	---	---

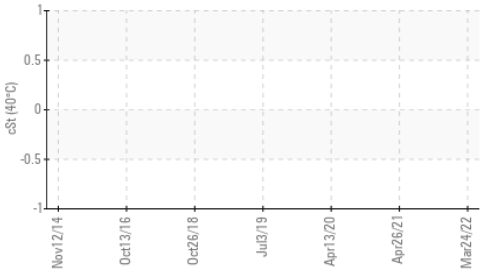
THICKENER/SOAP		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m		**0**	0	8
Barium	ppm	ASTM D5185m		**0**	0	0
Calcium	ppm	ASTM D5185m		**117**	116	139
Sodium	ppm	ASTM D5185m		**25**	22	18
Lithium	ppm	ASTM D5185m		**2784**	2636	2023
Sulfur	ppm	ASTM D5185m		**5603**	6091	5546

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>150	**319**	▲ 494	143
Potassium	ppm	ASTM D5185m		**6**	4	2

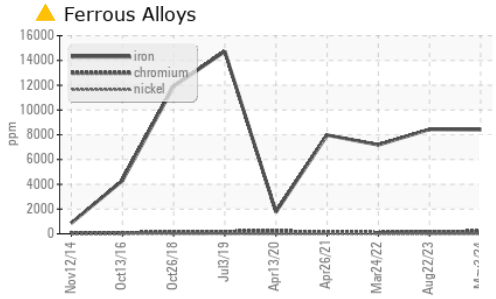
GREASE CONDITION		method	limit/base	current	history1	history2
Grease Color		*Visual	yellow	**Brown**	---	---
Texture		*In-house		**Buttery**	---	---
NLGI Consistency	NLGI Scale	*SKF Method	1	**0-1**	---	---

GREASE ANALYSIS

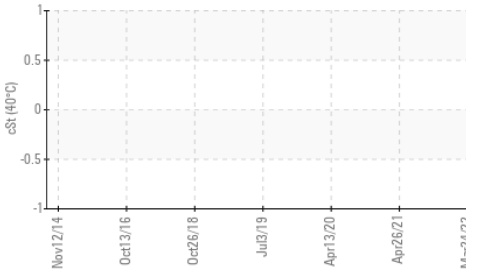
Viscosity @ 40°C

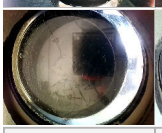
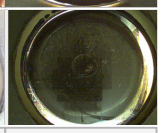


Ferrous Alloys



Viscosity @ 40°C



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
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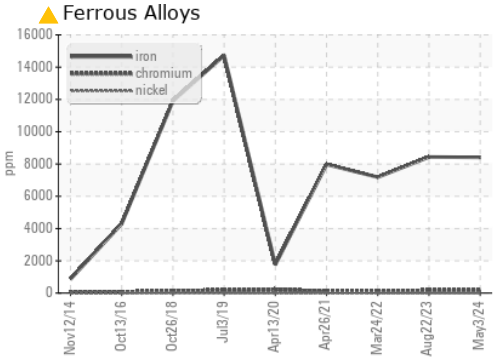
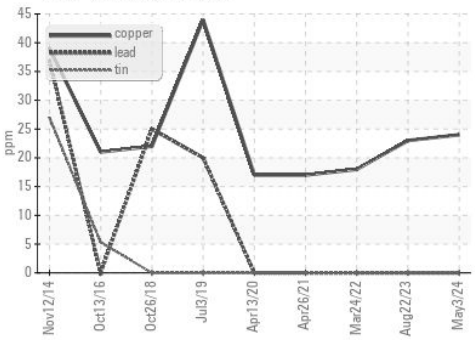
GRAPHS

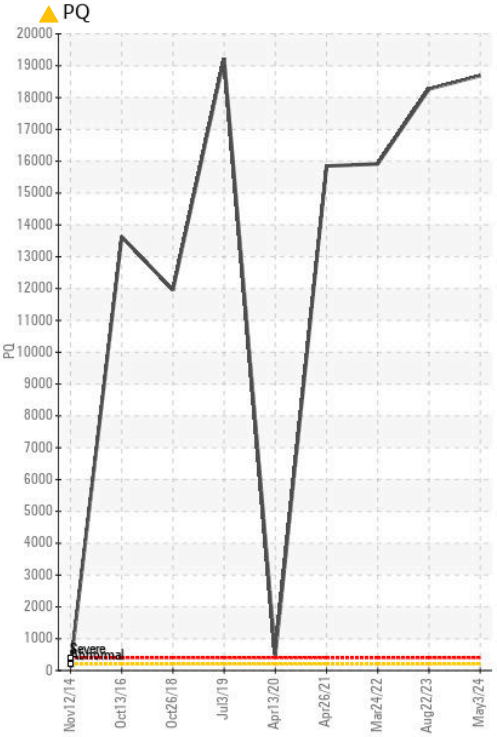
Ferrous Alloys



Non-ferrous Metals



PQ



Water