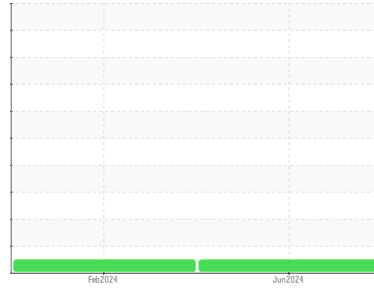


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
T259
Component
Gearbox
Fluid
TULCO LUBSOIL 4220 SYN GEAR 220 (150 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			TO10003548	TO50002069	---
Sample Date	Client Info			11 Jun 2024	13 Feb 2024	---
Machine Age	hrs	Client Info		5222	4470	---
Oil Age	hrs	Client Info		752	0	---
Oil Changed	Client Info			Not Chngd	N/A	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	NEG	---

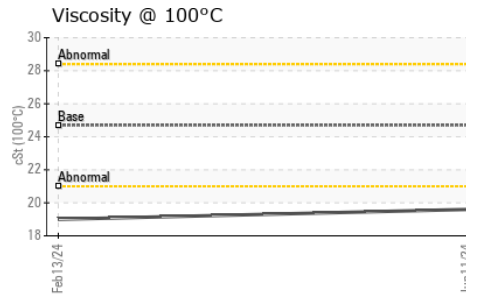
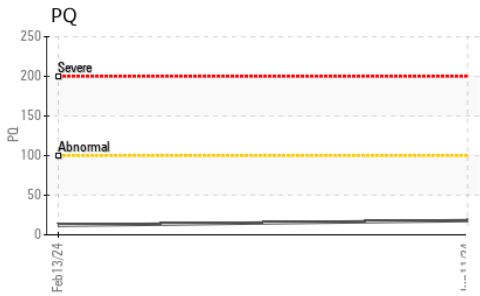
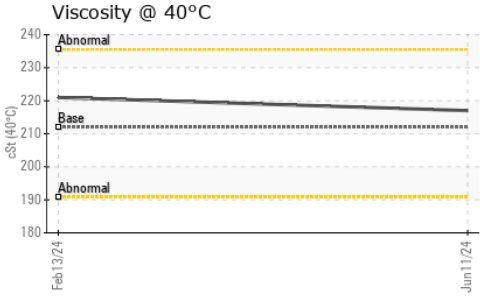
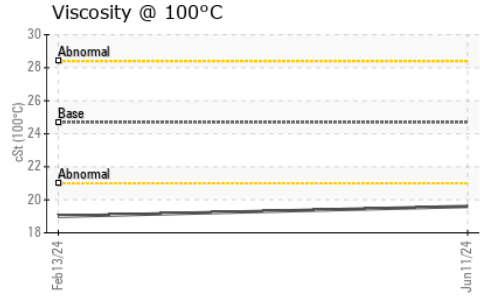
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		18	12	---
Iron	ppm	ASTM D5185m	>200	123	101	---
Chromium	ppm	ASTM D5185m	>15	<1	1	---
Nickel	ppm	ASTM D5185m	>15	<1	2	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>25	4	5	---
Lead	ppm	ASTM D5185m	>100	6	10	---
Copper	ppm	ASTM D5185m	>200	2	4	---
Tin	ppm	ASTM D5185m	>25	<1	2	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
Cadmium	ppm	ASTM D5185m		0	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	---
Barium	ppm	ASTM D5185m		1	7	---
Molybdenum	ppm	ASTM D5185m		334	430	---
Manganese	ppm	ASTM D5185m		1	2	---
Magnesium	ppm	ASTM D5185m		1	1	---
Calcium	ppm	ASTM D5185m		2	4	---
Phosphorus	ppm	ASTM D5185m	230	762	810	---
Zinc	ppm	ASTM D5185m		47	33	---
Sulfur	ppm	ASTM D5185m	2530	26386	26551	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	9	---
Sodium	ppm	ASTM D5185m		3	0	---
Potassium	ppm	ASTM D5185m	>20	2	1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	.380	1.25	---	---

OIL ANALYSIS REPORT



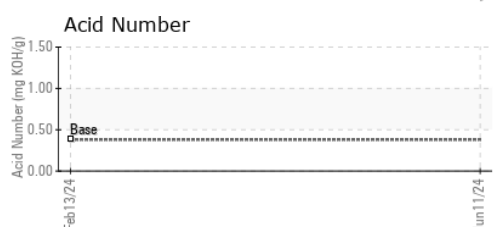
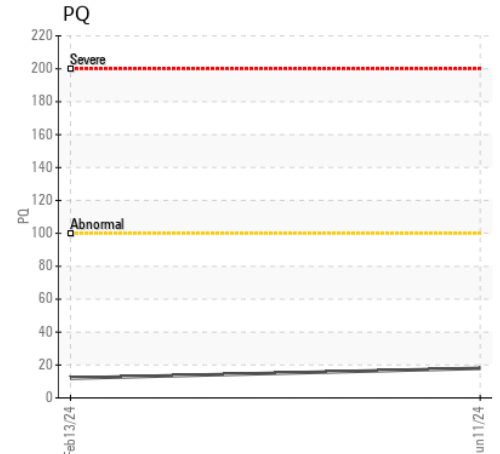
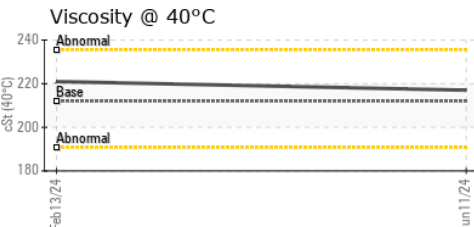
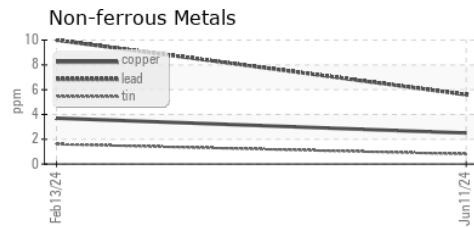
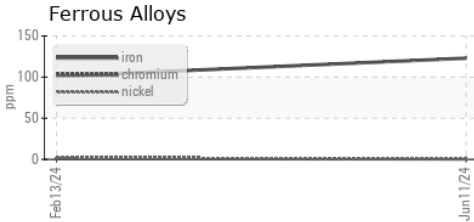
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	212	217	221
Visc @ 100°C	cSt	ASTM D445	24.7	19.6	19.0
Viscosity Index (VI)	Scale	ASTM D2270	146	102	96

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color					no image	no image
Bottom					no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003548 **Received** : 12 Jun 2024
Lab Number : **06207972** **Tested** : 14 Jun 2024
Unique Number : 11075433 **Diagnosed** : 14 Jun 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: KV100, PQ, VI)

KLX ENERGY SERVICES
 5104 ESTES PKWY
 LONGVIEW, TX
 US 75603
 Contact: DUSTIN TREST
 dustin.trest@klx.com

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)