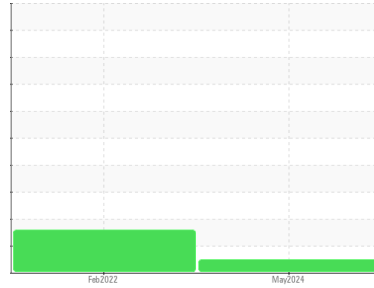


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
UNILOY/MILACRON STRUCTURAL FOAM 2 (S/N N05000AA020018)
 Component
Hydraulic System
 Fluid
TULCO LUBSOIL SUPER HYDRAULIC AW 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			TO50001256	TO5010609	---
Sample Date	Client Info			03 May 2024	28 Feb 2022	---
Machine Age	mths	Client Info		5	28264	---
Oil Age	mths	Client Info		0	0	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				NORMAL	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	3	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>20	0	2	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	0	0	---
Lead	ppm	ASTM D5185m	>20	0	<1	---
Copper	ppm	ASTM D5185m	>20	4	8	---
Tin	ppm	ASTM D5185m	>20	0	0	---
Antimony	ppm	ASTM D5185m		---	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

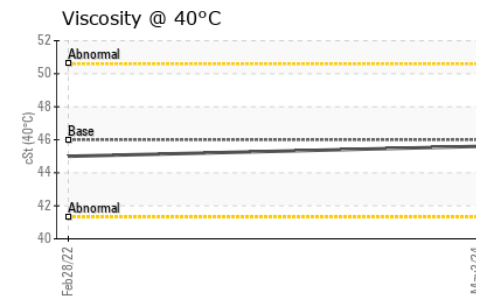
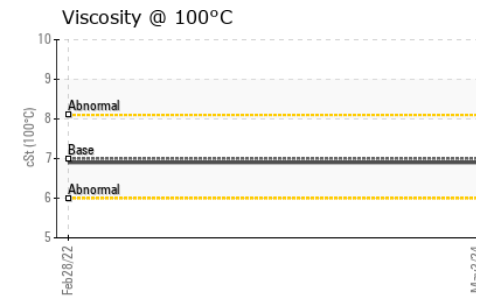
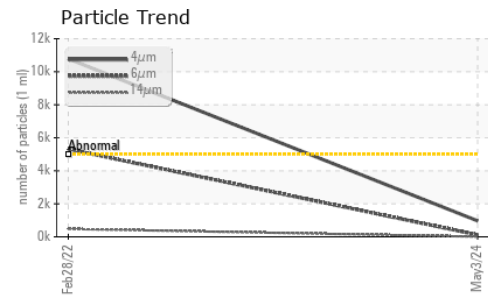
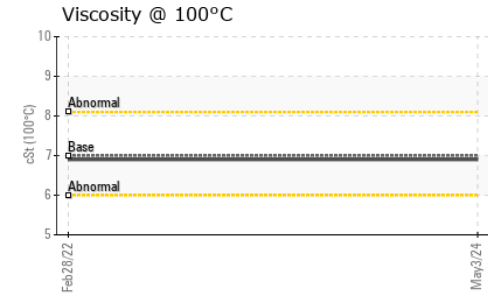
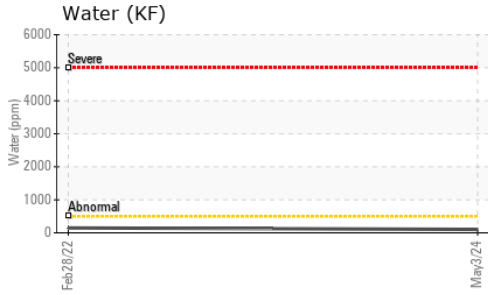
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		0	0	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m		70	29	---
Calcium	ppm	ASTM D5185m		58	22	---
Phosphorus	ppm	ASTM D5185m	450	282	287	---
Zinc	ppm	ASTM D5185m	540	362	277	---
Sulfur	ppm	ASTM D5185m	1825	1934	1391	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	1	---
Sodium	ppm	ASTM D5185m		2	1	---
Potassium	ppm	ASTM D5185m	>20	2	0	---
Water	%	ASTM D6304	>0.05	0.010	0.014	---
ppm Water	ppm	ASTM D6304	>500	104	148.2	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	967	▲ 10783	---
Particles >6µm		ASTM D7647	>1300	117	▲ 5313	---
Particles >14µm		ASTM D7647	>160	6	▲ 477	---
Particles >21µm		ASTM D7647	>40	2	▲ 48	---
Particles >38µm		ASTM D7647	>10	0	3	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/14/10	▲ 21/20/16	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	.7	0.38	0.38	---

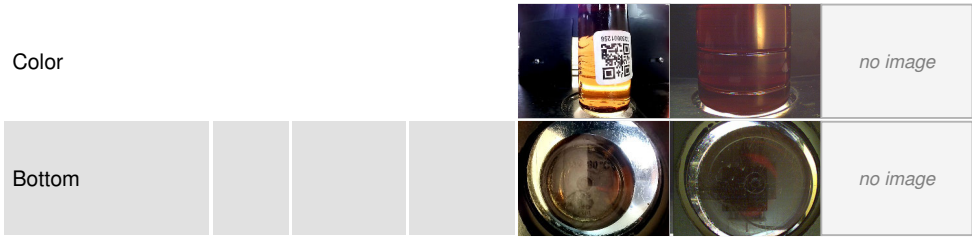
OIL ANALYSIS REPORT



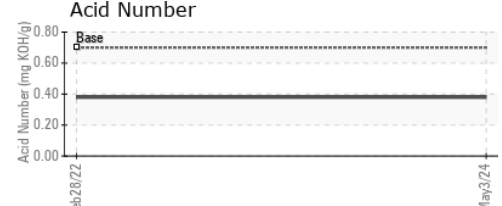
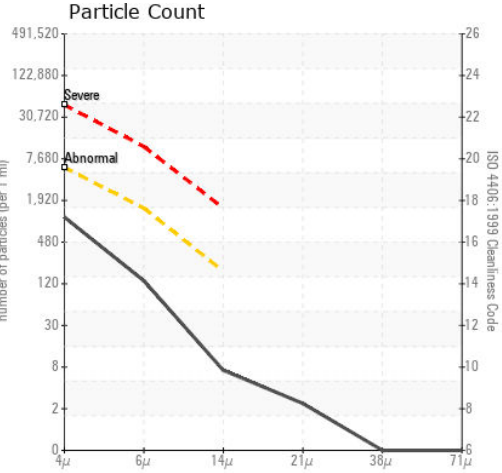
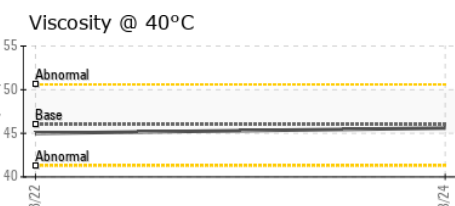
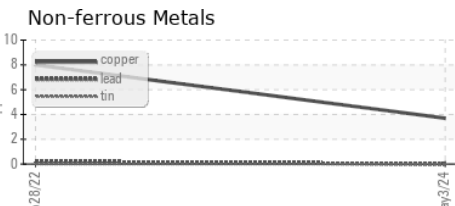
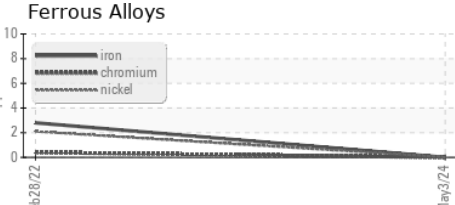
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	---
Free Water	scalar	*Visual		NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46	45.6	45.0	---
Visc @ 100°C	cSt	ASTM D445	7	6.9	6.9	---
Viscosity Index (VI)	Scale	ASTM D2270	109	106	109	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001256 **Received** : 10 Jun 2024
Lab Number : **06205547** **Tested** : 13 Jun 2024
Unique Number : 11073008 **Diagnosed** : 13 Jun 2024 - Wes Davis
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

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 US 75087
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 specina@channell.com
 T: (214)304-7800
 F:

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)