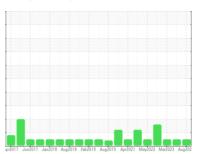


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



CUBER 1 (S/N 154)

Hydraulic System

NOT GIVEN (100 GAL)

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

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

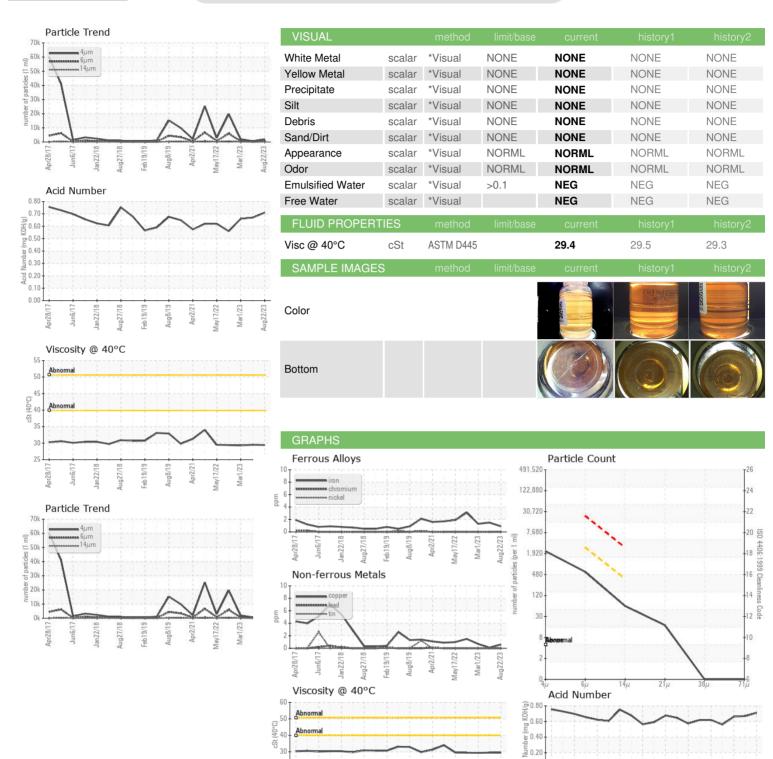
Fluid Condition

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

		sprŽ017 JunŽ0	17 Jan2018 Aug2018 Feb2	119 Aug2019 Apr2021 May2022 Ma	m2023 Aug202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PTK0003370	PTK0004437	PTK0003893
Sample Date		Client Info		22 Aug 2023	01 Jun 2023	01 Mar 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	2	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	2
Barium	ppm	ASTM D5185m		3	0	0
Molybdenum	ppm	ASTM D5185m		157	141	131
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	0	1
Calcium	ppm	ASTM D5185m		50	49	46
Phosphorus	ppm	ASTM D5185m		426	467	409
Zinc	ppm	ASTM D5185m		432	448	389
Sulfur	ppm	ASTM D5185m		1474	1566	1361
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1	2	2
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1967	640	1995
Particles >6µm		ASTM D7647	>2500	504	164	583
Particles >14µm		ASTM D7647	>320	53	11	49
Particles >21µm		ASTM D7647		15	3	16
Particles >38µm		ASTM D7647	>20	0	0	1
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15	16/13	15/11	16/13
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.71	0.67	0.66



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package

: PTK0003370 : 05938246 : 10628858 : MOB 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 Aug 2023 Diagnosed Diagnostician

: 31 Aug 2023 : Wes Davis

Aug22/23

0.00 G

MUTUAL MATERIALS 7414 S 206TH ST KENT, WA US 98032

T: (253)395-7376

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F:

Contact: SUTTON CHRISTIANSON schristianson@mutualmaterials.com

* - 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)