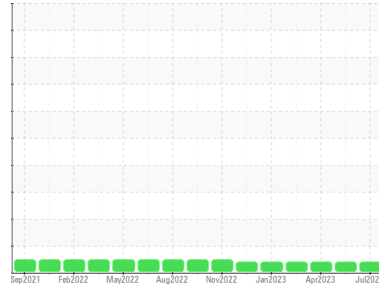




Machine Id
TMC - P15 (S/N W102018)
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 68 (--- QTS)



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. The amount and size of particulates present in the system are acceptable.
- ▲ **Fluid Condition**
Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PTK0004707	PTK0004699	PTK0003981
Sample Date	Client Info	14 Jul 2023	06 Jun 2023	25 Apr 2023
Machine Age	hrs Client Info	0	0	0
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ATTENTION	ATTENTION	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>20	2	2	0
Chromium ppm ASTM D5185m	>10	0	0	0
Nickel ppm ASTM D5185m	>10	0	0	0
Titanium ppm ASTM D5185m		<1	0	0
Silver ppm ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m	>10	0	0	<1
Lead ppm ASTM D5185m	>10	0	0	0
Copper ppm ASTM D5185m	>75	5	5	4
Tin ppm ASTM D5185m	>10	0	0	0
Vanadium ppm ASTM D5185m		<1	0	0
Cadmium ppm ASTM D5185m		0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	5	0	0	0
Barium ppm ASTM D5185m	5	0	2	0
Molybdenum ppm ASTM D5185m	5	0	0	0
Manganese ppm ASTM D5185m		<1	0	<1
Magnesium ppm ASTM D5185m	25	1	<1	0
Calcium ppm ASTM D5185m	200	58	57	55
Phosphorus ppm ASTM D5185m	300	368	346	360
Zinc ppm ASTM D5185m	370	456	465	464
Sulfur ppm ASTM D5185m	2500	3537	3038	3193

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>20	1	1	<1
Sodium ppm ASTM D5185m		<1	0	0
Potassium ppm ASTM D5185m	>20	0	0	0

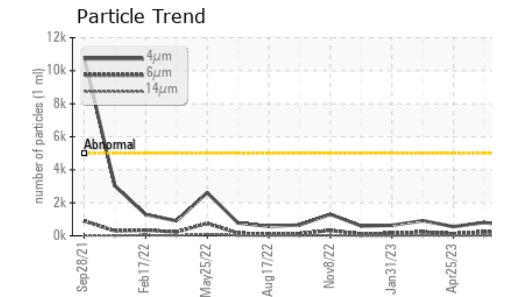
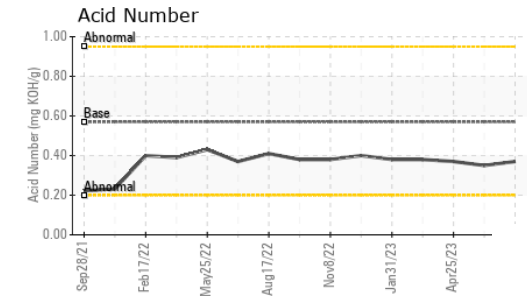
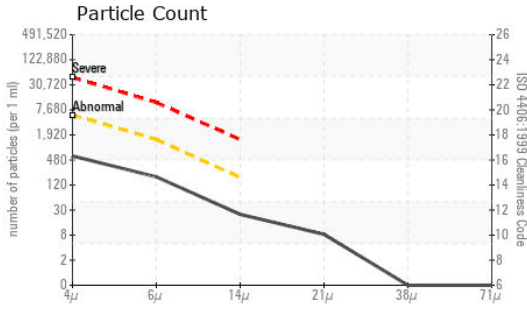
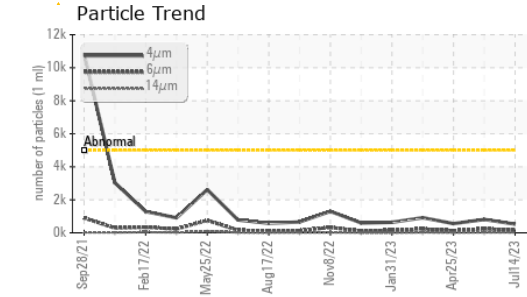
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	527	809	558
Particles >6µm ASTM D7647	>1300	166	239	130
Particles >14µm ASTM D7647	>160	21	23	7
Particles >21µm ASTM D7647	>40	7	6	1
Particles >38µm ASTM D7647	>10	0	0	0
Particles >71µm ASTM D7647	>3	0	0	0
Oil Cleanliness ISO 4406 (c)	>19/17/14	16/15/12	17/15/12	16/14/10

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.57	0.37	0.35	0.37

OIL ANALYSIS REPORT



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PTK0004707
Lab Number : 05930827
Unique Number : 10616098
Test Package : MOB 2

GENERAL PATTERN
 3075 84TH LN NE
 BLAINE, MN
 US 55449
 Contact: MIKE METHER
 mmether@generalpattern.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)

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	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 68	▲ 46.2	▲ 46.3	▲ 46.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

