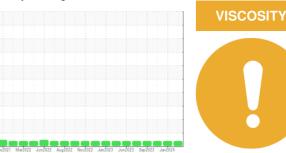


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

P-14 (S/N 201407100032281)

Component **' Hydraulic System**

AW HYDRAULIC OIL ISO 46 (--- QTS)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

)ec2021 Mar20	ZZ Jun2022 Aug2022 No	v2022	Jan2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PTK0005475	PTK0005085	PTK0005079
Sample Date		Client Info		20 Feb 2024	03 Jan 2024	17 Oct 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
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	0	0
Chromium	ppm	ASTM D5185m	>10	<1	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	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	2	2	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	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	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	2	0	0
Calcium	ppm	ASTM D5185m	200	38	41	47
Phosphorus	ppm	ASTM D5185m	300	268	305	357
Zinc	ppm	ASTM D5185m	370	313	360	414
Sulfur	ppm	ASTM D5185m	2500	3010	2917	3420
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	2	2
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	628	589	418
Particles >6µm		ASTM D7647	>1300	200	90	87
Particles >14μm		ASTM D7647	>160	17	7	5
Particles >21μm		ASTM D7647		5	2	2
Particles >38μm		ASTM D7647	>10	0	0	0
Particles >71μm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/11	16/14/10	16/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A a lal Ni. mala a u (ANI)	I/OII/-	ACTM DODAE	0.57	0.00	0.00	0.01

Acid Number (AN)

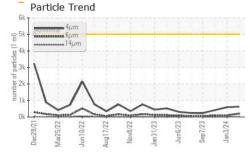
mg KOH/g ASTM D8045 0.57

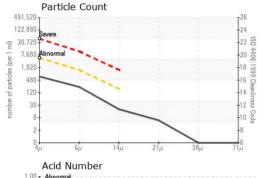
0.20

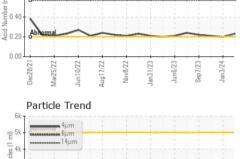
Contact/Location: MIKE METHER - GENBLA

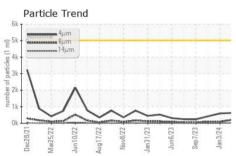


OIL ANALYSIS REPORT









VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	62.9	62.9	62.7
SAMPLE IMAGES		method	limit/base	current	history1	history2

GRAPHS		_
Ferrous Alloys	Particle Count	11-0-00
10 8 iron	491,520	T ²⁶
g 6- 66. 4.1	122,880 Severe	-24
2	30,720	-22
	7,680 Abnormal	20 58
Dec28/21 Mar25/22 Jun10/22 Aug17/22 Jan31/23 Sep7/23	(a) 1,920 480 480 120 -	180 4406:1999 Cleanliness Code
Non-ferrous Metals	480 480	16 Cea
10 8 copper	120	nlines
E 6 - C 4	30	12 code
2	8	10
4 3 3 5 5 5 4		
Dec28/21 Jun10/22 Aug17/22 Jan31/23 Sep7/23	2	+8
○ Viscosity @ 40°C	04µ 6µ 14µ 21µ 38µ	$71\mu^{6}$
70	Acid Number \$1.00 _{7 A} bnomal	
60 Anomal	Abnormal 0.00 (William) 0.00 (Willia	
E 50 Pase	e 0.40	-
40 40	0.20 Abeomal	
Dec28/21 + Mar25/22 + Mug17/22 + Jun10/22 + Jun6/23 + Jun6/23 + Jun8/24 + Jan3/24 + Ja	Ac Sep 7/23 + Sep 7/23	Jan3/24
Dec28/21 Mar25/22 Jun10/22 Nov8/22 Jun6/23 Sep7/23	Dec28/21 Mar25/22 Jun 10/22 Nov8/22 Jan31/23 Sep7/23	Jan





Certificate 12367

Laboratory

Sample No. : PTK0005475 Lab Number : 06148626 Unique Number : 10978704

Test Package : MOB 2

Color

Bottom

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Apr 2024 Tested

: 16 Apr 2024 Diagnosed

: 17 Apr 2024 - Don Baldridge

US 55449 Contact: MIKE METHER mmether@generalpattern.com

GENERAL PATTERN

3075 84TH LN NE

BLAINE, MN

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)

Report Id: GENBLA [WUSCAR] 06148626 (Generated: 04/17/2024 14:29:07) Rev: 1

Contact/Location: MIKE METHER - GENBLA

T:

F: