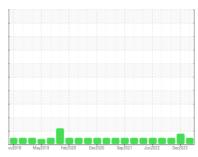


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **GORILLA 13**

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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.

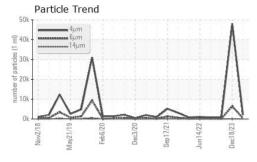
Fluid Condition

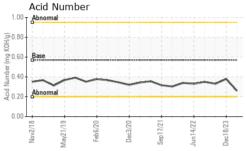
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

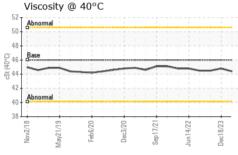
		ov2018 Ma	ry2019 Feb2020 De	c2020 Sep2021 Jun2022	Dec2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PTK0003384	PTK0005055	PTK0003878
Sample Date		Client Info		30 May 2024	18 Dec 2023	03 Mar 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
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	0	3	2
Chromium	ppm	ASTM D5185m	>10	0	2	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	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	5	4	9
Tin	ppm	ASTM D5185m	>10	0	<1	<1
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	1
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	25	0	1	<1
Calcium	ppm	ASTM D5185m	200	58	38	44
Phosphorus	ppm	ASTM D5185m	300	342	323	310
Zinc	ppm	ASTM D5185m	370	431	328	383
Sulfur	ppm	ASTM D5185m	2500	955	683	883
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	<1	1
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	1	0	1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		2035	48070	743
Particles >6µm		ASTM D7647	>2500	411	△ 6393	137
Particles >14μm		ASTM D7647	>320	33	70	9
Particles >21µm		ASTM D7647	>80	7	10	1
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	18/16/12	<u>\$\text{23}\20\/13\$</u>	17/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

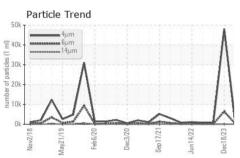


OIL ANALYSIS REPORT









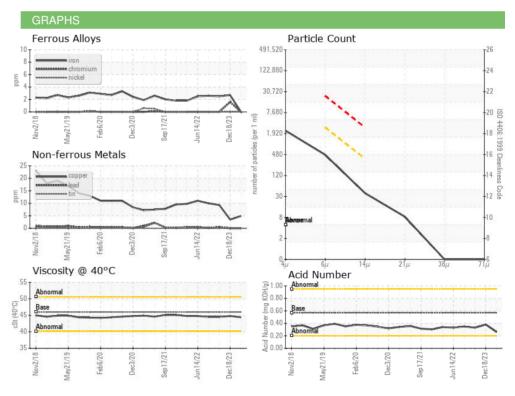
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
ELLID DDODEDI	TITO	mathad	limit/bass	Olivropt.	hiotomyt	hiotomyO

Visc @ 40°C	cSt	ASTM D445	46	44.4	44.8	44.5

SAMPLE IMAGES	metnoa	ilmit/bas
Color		











Certificate 12367

Laboratory Sample No.

: PTK0003384 Lab Number : 06221158 Unique Number : 11099355 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Jun 2024

Diagnosed

Tested : 27 Jun 2024

: 27 Jun 2024 - Wes Davis

409 192ND ST TACOMA, WA US 98446 Contact: JAMES DAWSON

PIONEER RECYCLING

jamesdawson@pioneerrs.com T:

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)

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