

OIL ANALYSIS REPORT

[604317542 SR] PETZ 10 (S/N 20061818)

Component **Gearbox**

GEAR OIL ISO 220 (--- GAL)

2014 Madis hadis hadis pages 04200 pages 14-022

Sample Rating Trend



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

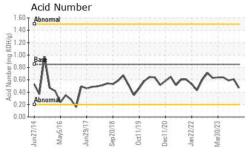
Fluid Condition

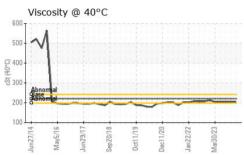
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		n2014 May20	16 Jun2017 Sep2018	Oct2019 Dec2020 Jan2022	Vlar2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0854424	WC0605490	WC0854376
Sample Date		Client Info		07 Mar 2024	14 Dec 2023	15 Sep 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	0	5	7
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	2	5
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	<1	1
Tin	ppm	ASTM D5185m	>25	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	50	0	0	0
Barium	ppm	ASTM D5185m	15	0	<1	0
Molybdenum	ppm	ASTM D5185m	15	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	50	0	2	<1
Calcium	ppm	ASTM D5185m	50	7	5	5
Phosphorus	ppm	ASTM D5185m	350	459	165	182
Zinc	ppm	ASTM D5185m	100	32	2	0
Sulfur	ppm	ASTM D5185m	12500	1367	2391	2802
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	8	12	11
Sodium	ppm	ASTM D5185m		0	<1	2
Potassium	ppm	ASTM D5185m	>20	<1	2	0
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.47	0.61	0.59



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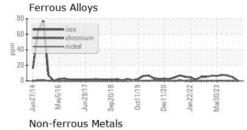
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2

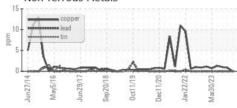
Visc @ 40°C cSt ASTM D445 220 204 205 205 SAMPLE IMAGES

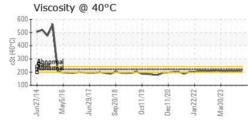
Color

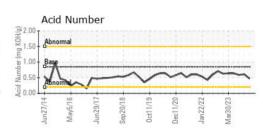
Bottom















Certificate L2367

Laboratory Sample No.

: WC0854424 Lab Number : 06122561 Unique Number : 10936712 Test Package : IND 2

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Mar 2024 **Tested** : 20 Mar 2024

Diagnosed : 21 Mar 2024 - Jonathan Hester

MARS CHOCOLATE 2019 NORTH OAK PARK

CHICAGO, IL US 60707

Contact: TONY FIORE tony.fiore@effem.com T: (773)745-2279

* - 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)