



**PERFORMANCE
UNDER
PRESSURE**

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MF11 MODUL 2 (S/N P3300096)
 Component
Hydraulic System
 Fluid
ROYAL PURPLE SYNDRAULIC 46 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP0036007	RP0032907	RP0032921
Sample Date		Client Info		23 May 2024	12 Oct 2023	11 May 2023
Machine Age	hrs	Client Info		2000	2000	0
Oil Age	hrs	Client Info		0	2000	1000
Filter Age	hrs	Client Info		2000	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	0	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	8	13	12
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

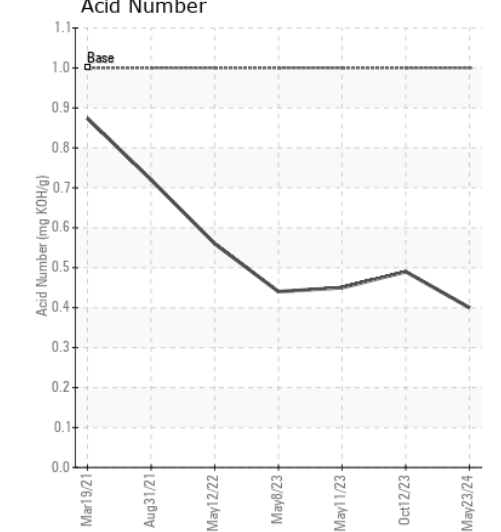
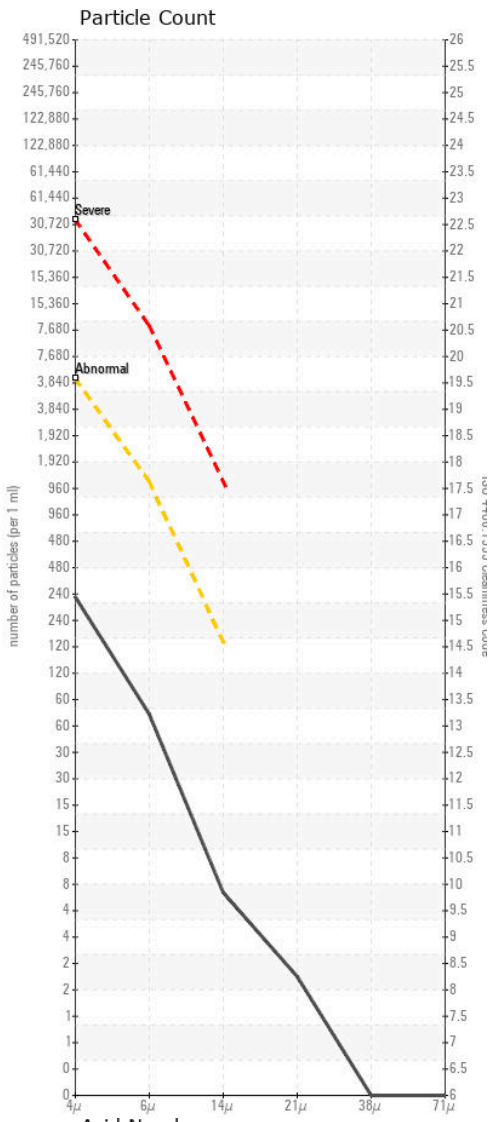
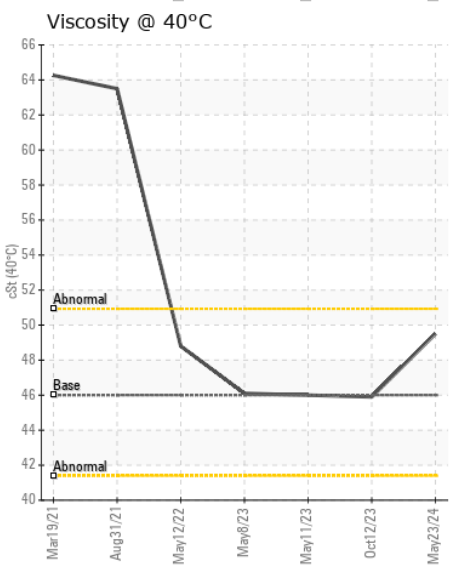
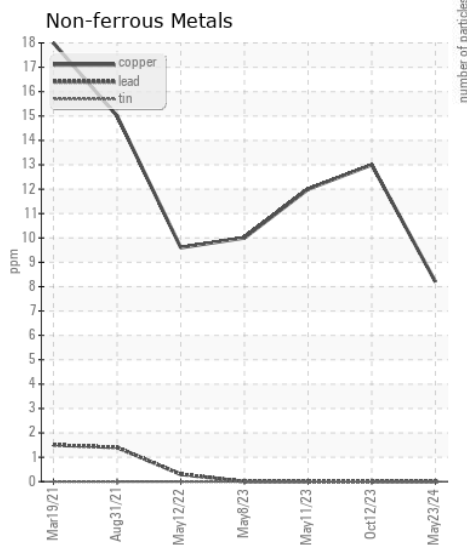
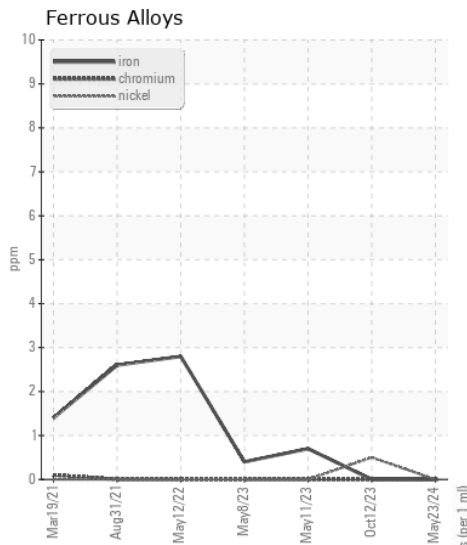
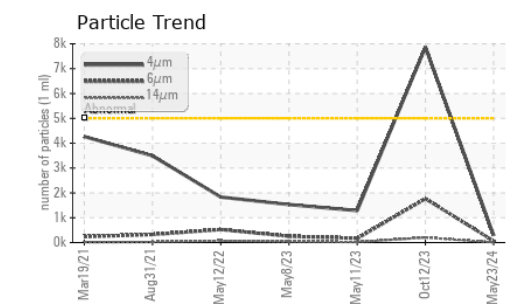
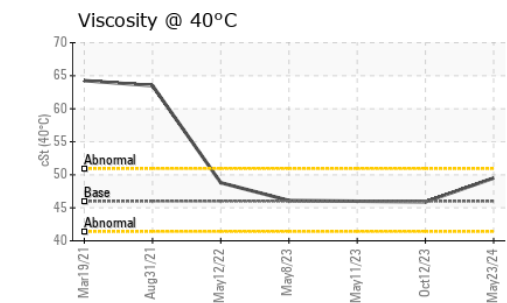
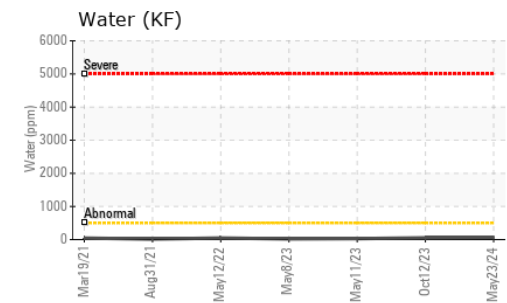
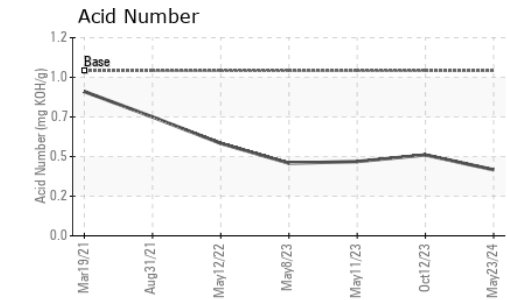
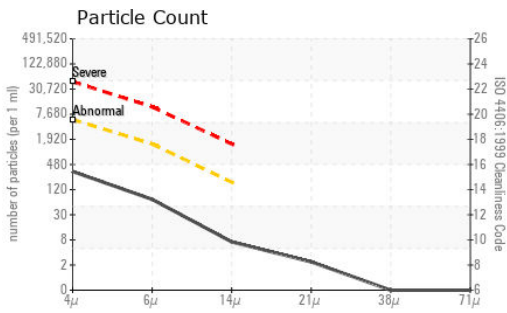
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	<1	2	2
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Water	%	ASTM D6304	>0.05	0.006	0.005	0.003
ppm Water	ppm	ASTM D6304	>500	64	53.7	28.5
Particles >4µm		ASTM D7647	>5000	287	7872	1288
Particles >6µm		ASTM D7647	>1300	62	1768	170
Particles >14µm		ASTM D7647	>160	6	204	20
Particles >21µm		ASTM D7647	>40	2	72	8
Particles >38µm		ASTM D7647	>10	0	6	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/13/10	20/18/15	17/15/11
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	>0.05	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	0	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	6
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	2	<1
Calcium	ppm	ASTM D5185m	150	35	27	34
Phosphorus	ppm	ASTM D5185m	670	329	350	337
Zinc	ppm	ASTM D5185m	800	361	424	404
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.40	0.49	0.45
Visc @ 40°C	cSt	ASTM D445	46.0	49.5	45.9	46.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0036007
Lab Number : 06227406
Unique Number : 11110899
Test Package : IND 2

Received : 03 Jul 2024
Tested : 06 Jul 2024
Diagnosed : 06 Jul 2024 - Don Baldrige

PAESA
 CHAPULTEPEC 304-A COL. REGINA
 MONTERREY,
 NL

Contact: MARCELA TOVAR
 marcelatovar@grupoati.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)

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