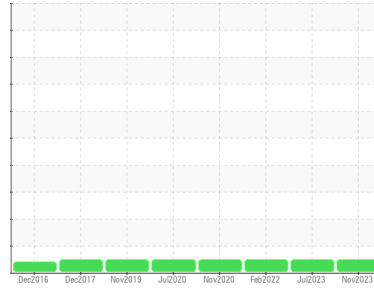


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
ARGOS RM 3 EXT

Component
Gearbox

Fluid
PETRO CANADA ENDURATEX EP 460 (60 GAL)

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.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0098137	PCA0098144	PCA0065572
Sample Date	Client Info	07 Nov 2023	11 Jul 2023	03 Feb 2022
Machine Age	yrs Client Info	6	5	0
Oil Age	yrs Client Info	5	5	2
Oil Changed	Client Info	Not Changed	Not Changed	Not Changed
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >200	93	99	54
Chromium	ppm ASTM D5185m >15	<1	1	<1
Nickel	ppm ASTM D5185m >15	<1	<1	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m	<1	0	0
Aluminum	ppm ASTM D5185m >25	2	2	<1
Lead	ppm ASTM D5185m >100	<1	0	<1
Copper	ppm ASTM D5185m >200	<1	<1	<1
Tin	ppm ASTM D5185m >25	0	0	0
Antimony	ppm ASTM D5185m >5	---	---	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 55	21	25	16
Barium	ppm ASTM D5185m 0	6	0	0
Molybdenum	ppm ASTM D5185m 0	<1	0	0
Manganese	ppm ASTM D5185m 0	<1	<1	<1
Magnesium	ppm ASTM D5185m 2	<1	<1	0
Calcium	ppm ASTM D5185m 6	<1	0	2
Phosphorus	ppm ASTM D5185m 240	288	320	291
Zinc	ppm ASTM D5185m 3	38	61	23
Sulfur	ppm ASTM D5185m 10310	7520	8680	5285

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	2	2	2
Sodium	ppm ASTM D5185m	0	0	0
Potassium	ppm ASTM D5185m >20	1	2	<1

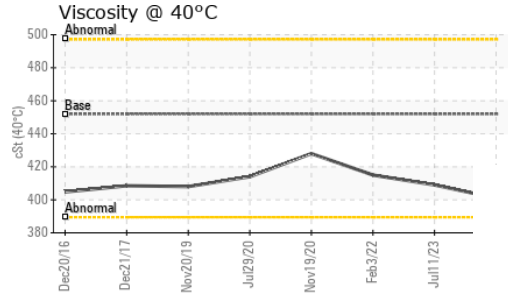
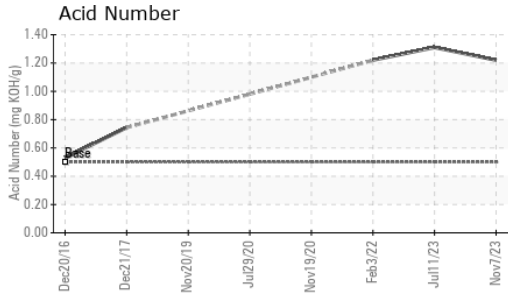
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.5	1.22	1.31	1.22

VISUAL

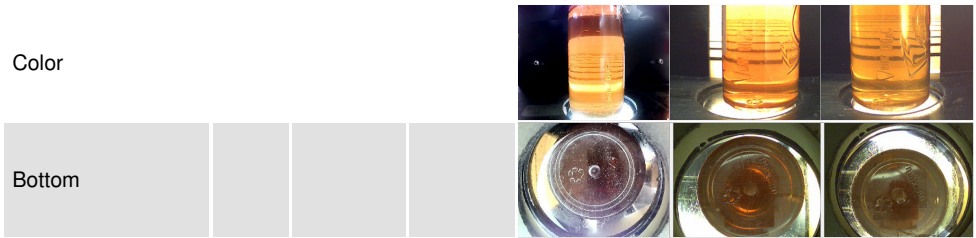
method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar *Visual NONE	NONE	NONE	NONE
Precipitate	scalar *Visual NONE	NONE	NONE	NONE
Silt	scalar *Visual NONE	NONE	NONE	NONE
Debris	scalar *Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar *Visual NONE	NONE	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

OIL ANALYSIS REPORT

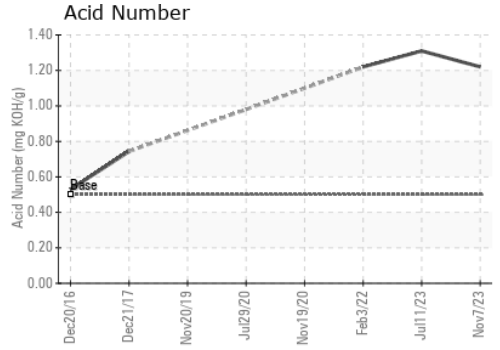
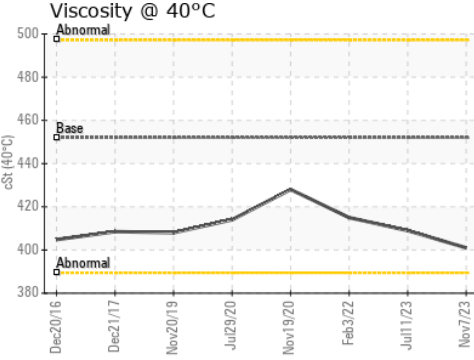
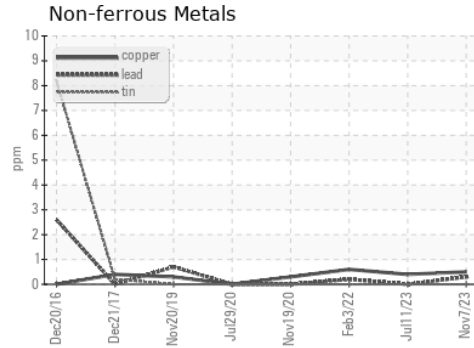
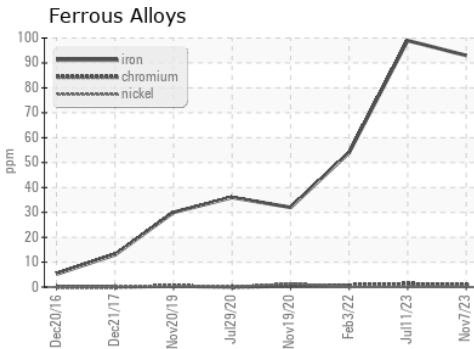


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	452	401	409	415

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098137
Lab Number : **06005826**
Unique Number : 10739588
Test Package : IND 2

Received : 13 Nov 2023
Diagnosed : 15 Nov 2023
Diagnostician : Jonathan Hester

CERTAINTED CORP
 200 RANTHOR DR
 SOCIAL CIRCLE, GA
 US 30025
 Contact: Dennis Shields
 Dennis.R.Shields@saint-gobain.com
 T:
 F: (770)464-0878

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)