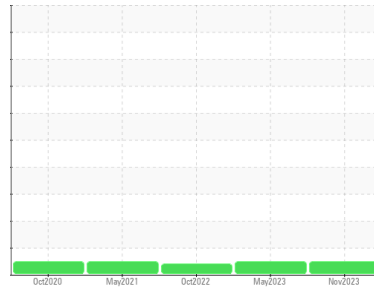




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
FA9803 (S/N COOLING DRUM DROP)

Component
Gearbox

Fluid
MOBIL SHC 630 (--- 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. The amount and size of particulates present in the system are acceptable.

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	USP0003677	USP246072	USP234725
Sample Date	Client Info	18 Nov 2023	21 May 2023	20 Oct 2022
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		NORMAL	NORMAL	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >200	0	<1	<1
Chromium	ppm ASTM D5185m >15	0	0	<1
Nickel	ppm ASTM D5185m >15	0	<1	0
Titanium	ppm ASTM D5185m	0	0	<1
Silver	ppm ASTM D5185m	0	0	<1
Aluminum	ppm ASTM D5185m >25	0	0	<1
Lead	ppm ASTM D5185m >100	0	0	<1
Copper	ppm ASTM D5185m >200	0	0	<1
Tin	ppm ASTM D5185m >25	0	0	<1
Antimony	ppm ASTM D5185m >5	---	---	---
Vanadium	ppm ASTM D5185m	0	0	<1
Cadmium	ppm ASTM D5185m	0	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0	0	0
Barium	ppm ASTM D5185m	0	0	<1
Molybdenum	ppm ASTM D5185m	0	0	<1
Manganese	ppm ASTM D5185m	0	0	<1
Magnesium	ppm ASTM D5185m	0	<1	0
Calcium	ppm ASTM D5185m	0	0	0
Phosphorus	ppm ASTM D5185m	312	388	391
Zinc	ppm ASTM D5185m	3	2	<1
Sulfur	ppm ASTM D5185m	35	93	124

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	19	22	20
Sodium	ppm ASTM D5185m	<1	0	0
Potassium	ppm ASTM D5185m >20	0	<1	0
Water	% ASTM D6304 >0.2	0.007	0.009	0.005
ppm Water	ppm ASTM D6304 >2000	71.5	95.8	53.8

FLUID CLEANLINESS

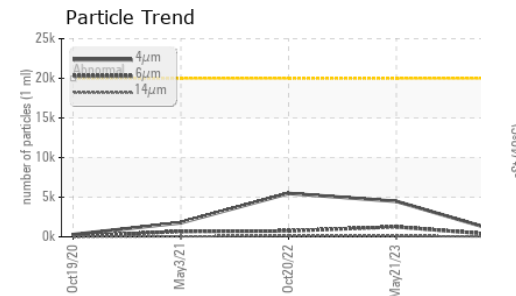
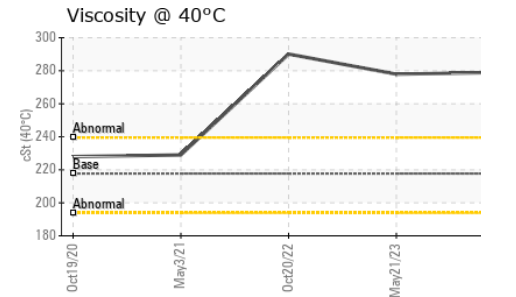
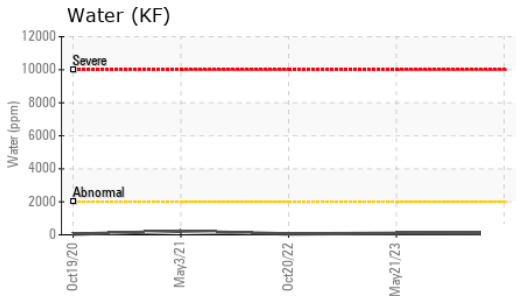
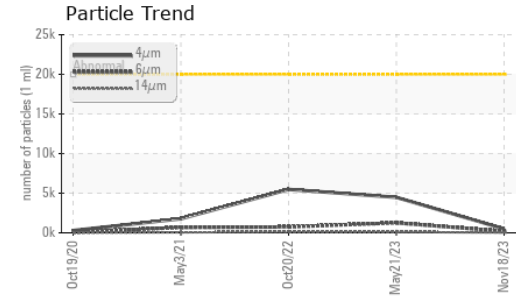
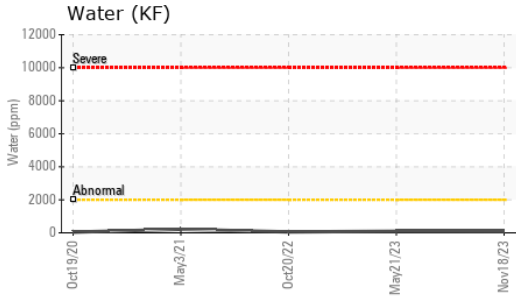
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	502	4478	5480
Particles >6µm	ASTM D7647 >5000	204	1257	742
Particles >14µm	ASTM D7647 >640	37	98	105
Particles >21µm	ASTM D7647 >160	14	18	10
Particles >38µm	ASTM D7647 >40	0	2	0
Particles >71µm	ASTM D7647 >10	0	1	0
Oil Cleanliness	ISO 4406 (c) >21/19/16	16/15/12	19/17/14	20/17/14

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	0.32	0.33	0.44



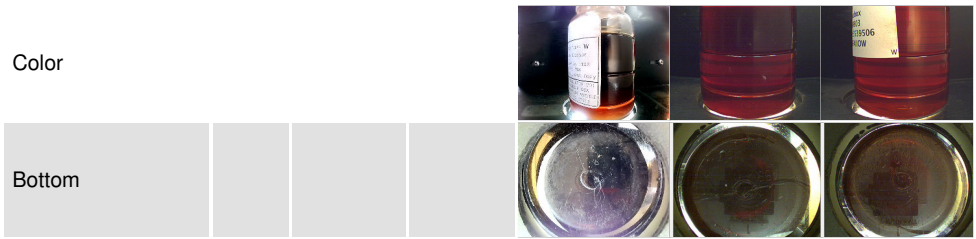
OIL ANALYSIS REPORT



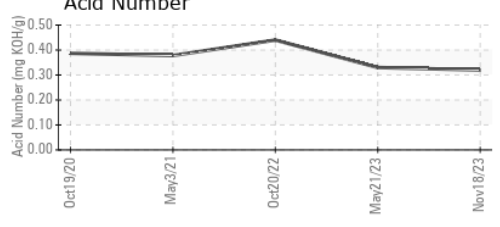
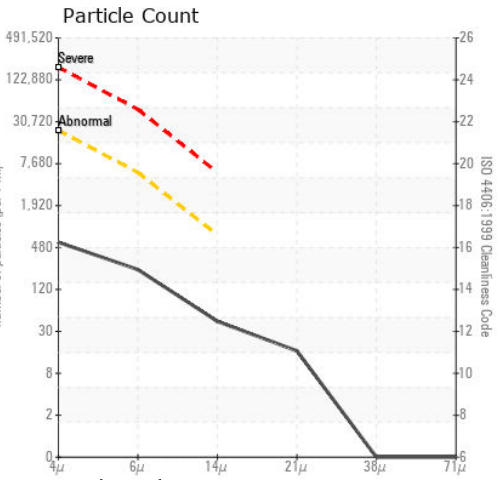
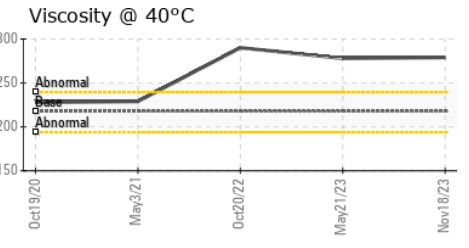
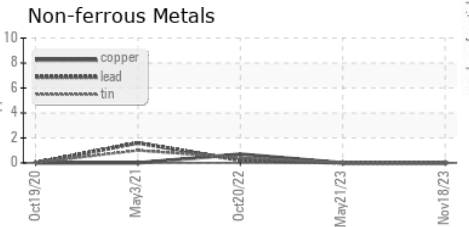
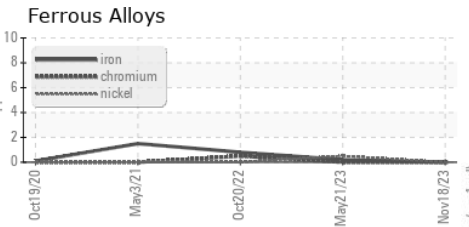
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	217.7	279	277.9 ▲ 290.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0003677 **Received** : 17 Nov 2023
Lab Number : 06010879 **Diagnosed** : 20 Nov 2023
Unique Number : 10750023 **Diagnostician** : Doug Bogart
Test Package : IND 2

POET BIO PROCESSING
 1277 102ND ST
 FAIRBANK, IA
 US 50662
 Contact: JASON GOEDKEN
 Jason.Goedken@POET.COM
 T: (319)284-2621
 F:

Certificate L2367
 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)