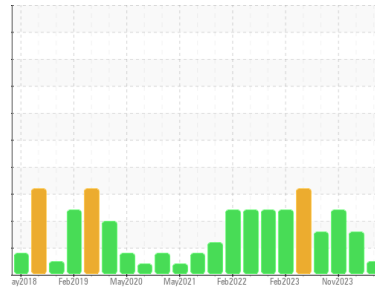




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
SEW EURODRIVE 1 PICKING LINE DRIVE WEST (S/N 870003334.15.15.001)
 Component
Gearbox
 Fluid
PETRO CANADA PURITY FG SYNTH EP GEAR 220 (7 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			USP0012470	USP0007463	USP0003886
Sample Date	Client Info			06 Jun 2024	18 Feb 2024	19 Nov 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	28	26	25
Chromium	ppm	ASTM D5185m	>15	<1	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	24	23
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	0	<1	<1
Tin	ppm	ASTM D5185m	>25	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	2	2
Calcium	ppm	ASTM D5185m		0	16	33
Phosphorus	ppm	ASTM D5185m		451	532	515
Zinc	ppm	ASTM D5185m		2	13	3
Sulfur	ppm	ASTM D5185m		1101	537	545

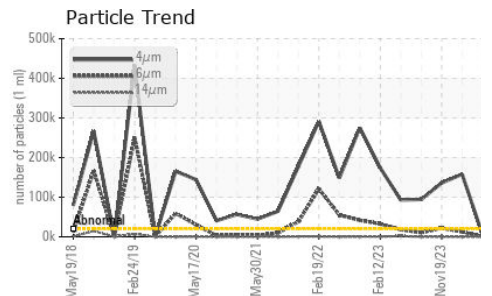
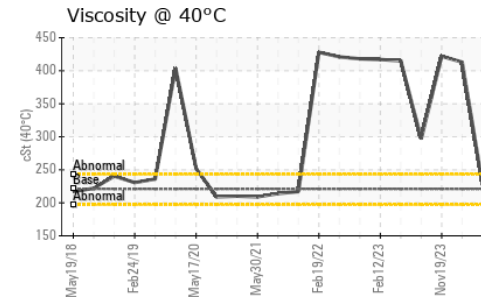
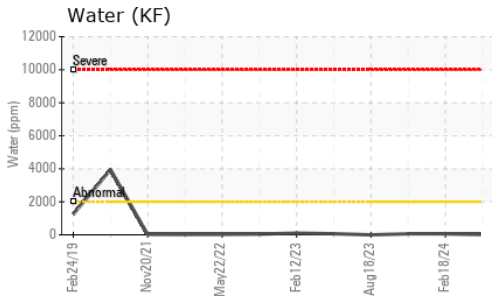
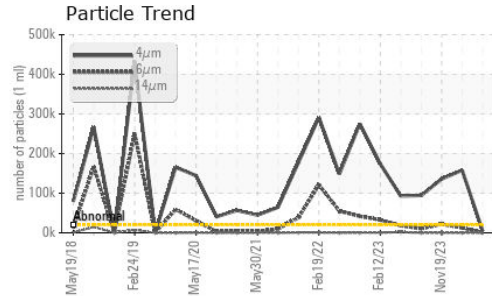
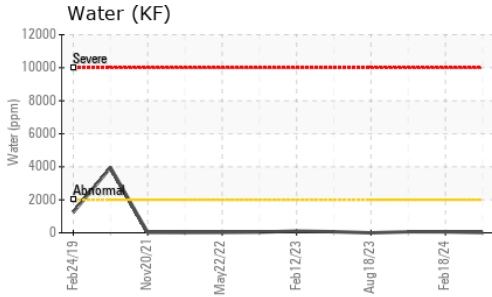
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	26	25
Sodium	ppm	ASTM D5185m		<1	17	16
Potassium	ppm	ASTM D5185m	>20	<1	1	2
Water	%	ASTM D6304	>0.2	0.001	0.005	0.006
ppm Water	ppm	ASTM D6304	>2000	6	58	63

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	4937	▲ 158149	▲ 135832
Particles >6µm		ASTM D7647	>5000	746	▲ 12687	▲ 21987
Particles >14µm		ASTM D7647	>640	13	54	115
Particles >21µm		ASTM D7647	>160	3	10	14
Particles >38µm		ASTM D7647	>40	1	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/17/11	▲ 24/21/13	▲ 24/22/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.59	0.52	0.40	0.36



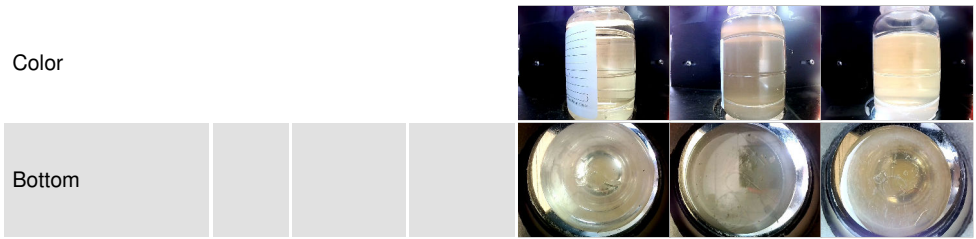
OIL ANALYSIS REPORT



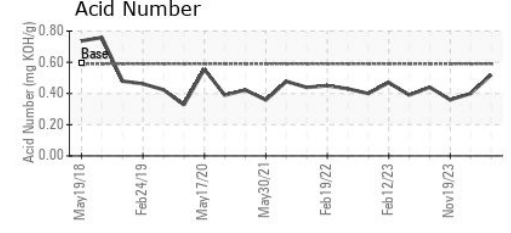
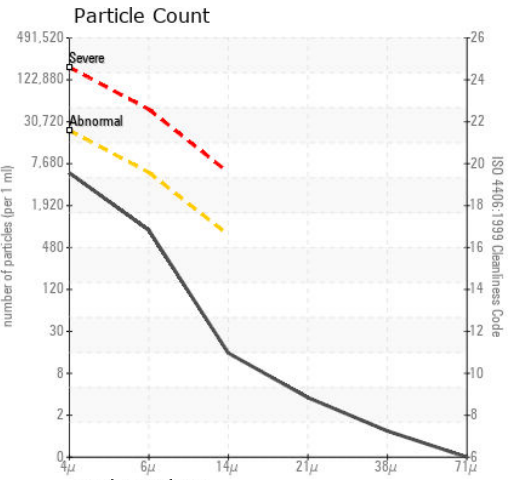
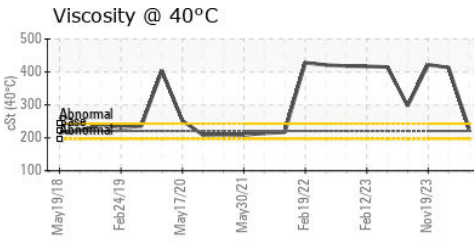
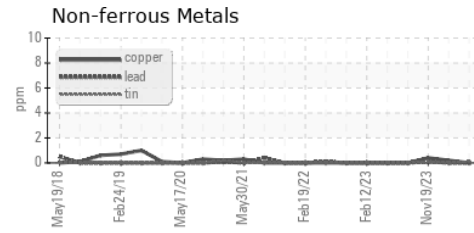
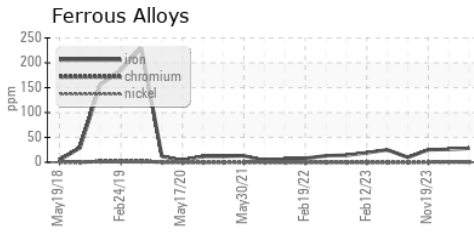
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	227	413	422

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : USP0012470
 Lab Number : 06202782
 Unique Number : 11070243
 Test Package : IND 2

Received : 07 Jun 2024
 Tested : 10 Jun 2024
 Diagnosed : 11 Jun 2024 - Doug Bogart

TYSON - SMART CHICKEN MBA
 333 SOUTH 3RD ST
 TECUMSEH, NE
 US 68450
 Contact: DAVE BILLUPS
 dbillups@smartchicken.com
 T: (402)786-1000
 F: (402)335-2502

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)