

#### TEAM 15 Machine Id 156115 (S/N ROTARY AIR LOCK FEEDER) Component Gearbox Fluid PETRO CANADA ENDURATEX EP 220 (5 GAL)

#### RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA ENDURATEX EP 220, however, a fluid match indicates that this fluid is ISO 220 Synthetic (PAO) Gear Oil. Please confirm the oil type and grade on your next sample.

### WEAR

All component wear rates are normal.

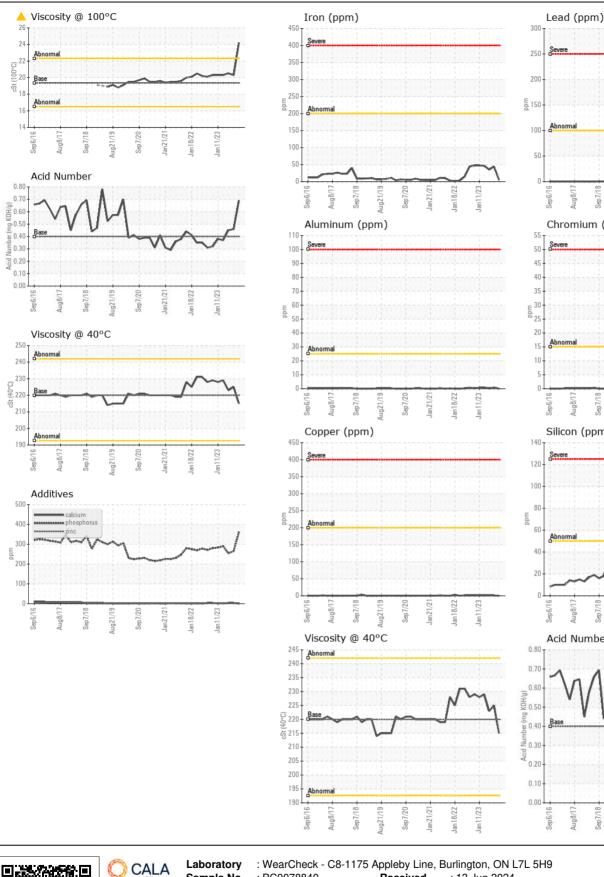
## CONTAMINATION

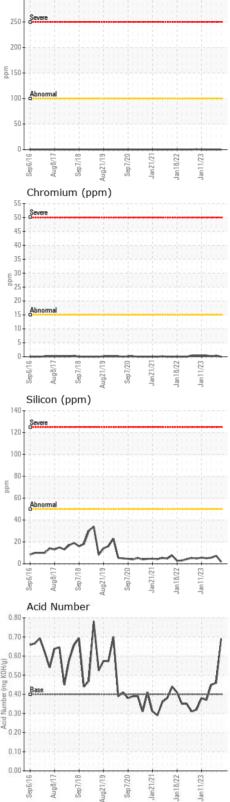
There is no indication of any contamination in the oil.

# FLUID CONDITION

The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

				~~~~		
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0078840	PC0076947	PC0070413
Sample Date		Client Info		05 Jun 2024	14 Jan 2024	25 Oct 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Filter Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron			. 200	5	44	35
	ppm	ASTM D5185(m)	>200	-		
Chromium	ppm	ASTM D5185(m)	>15	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	05	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	0	<1	<1
Lead	ppm	ASTM D5185(m)	>100	0	0	<1
Copper	ppm	ASTM D5185(m)	>200	0	<1	1
Tin	ppm	ASTM D5185(m)	>25	0	0	0
Vanadium	ppm	ASTM D5185(m)	NONE	0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>50	2	7	6
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	VLITE
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
Sodium		ASTM D5185(m)		2	26	21
Boron	ppm ppm	ASTM D5185(m)	60	32	46	42
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese		ASTM D5185(m)	0	0	0	0
Magnesium	ppm ppm	ASTM D5185(m)	0	<1	<1	0
Calcium		ASTM D5185(m)	0	<1	3	3
Phosphorus	ppm	ASTM D5185(m)	270	361	266	254
Zinc	ppm	ASTM D5185(m)	0	2	3	4
Sulfur	ppm ppm	ASTM D5185(m)	11200	2 4914	6047	5383
Acid Number (AN)	mg KOH/g	ASTM D5165(III) ASTM D974*	0.40	0.69	0.46	0.45
Visc @ 40°C	cSt	ASTM D974 ASTM D7279(m)	220	215	225	223
Visc @ 40 C Visc @ 100°C	cSt	ASTM D7279(m) ASTM D7279(m)	19.35	215 <b>2</b> 4.2	22.5	223
Viscosity Index (VI)	Scale	ASTM D7279(III) ASTM D2270*				
viscosity index (VI)	Scale	ASTIVI DZZ70	99	140	104	107





**Dryden Fibre** Sample No. : PC0078840 Received Box 3001, 1 Duke Street : 13 Jun 2024 Lab Number Tested Dryden, ON : 02641819 : 14 Jun 2024 ISO 17025:2017 Accredited Laboratory CA P8N 2Z7 Unique Number : 5799358 Diagnosed : 14 Jun 2024 - Kevin Marson Test Package : MOB 2 (Additional Tests: KV100, TAN Man, VI) Contact: Adebukola Adekanye To discuss this sample report, contact Customer Service at 1-800-268-2131. aadekanye@drydenfibre.ca T: (807)223-9950 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (807)223-9176 Validity of results and interpretation are based on the sample and information as supplied.