**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

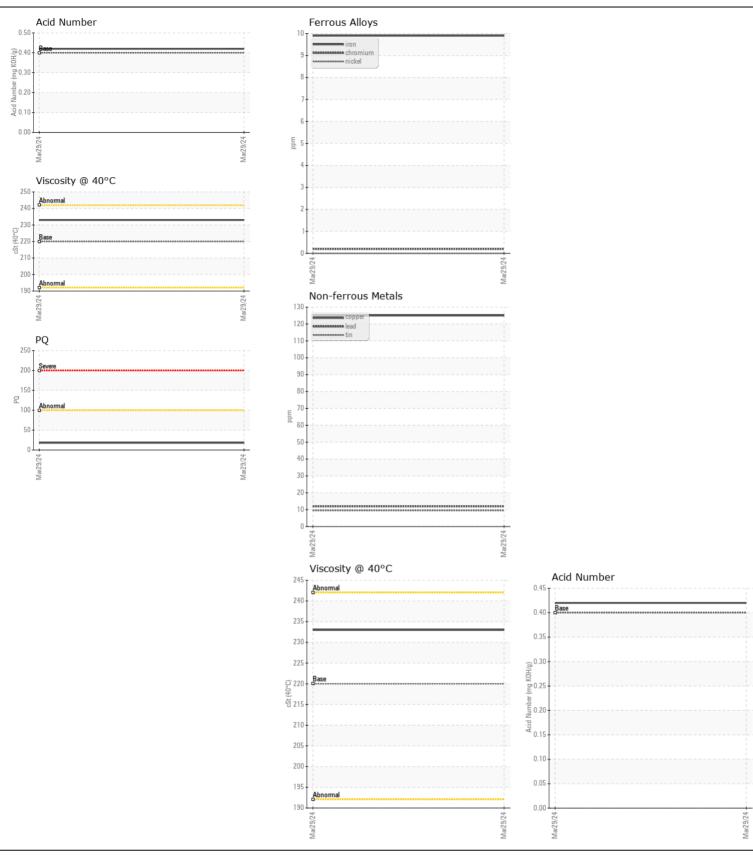
Machine Id

## PITCH ACTUATOR CYLINDER

Gearbox

PETRO CANADA ENDURATEX EP 220 ( GAI	<u>_)</u>				-		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.	Sample Number		Client Info		PE0001866		
	Sample Date		Client Info		29 Mar 2024		
	Machine Age	mths	Client Info		2		
	Oil Age	mths	Client Info		0		
	Filter Age	mths	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	PQ		ASTM D8184		18		
All component wear rates are normal.	Iron	ppm	ASTM D5185m	>200	10		
	Chromium	ppm	ASTM D5185m	>15	<1		
	Nickel	ppm	ASTM D5185m	>15	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	18		
	Lead	ppm	ASTM D5185m	>100	12		
	Copper	ppm	ASTM D5185m	>200	125		
	Tin	ppm	ASTM D5185m	>25	10		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTARINATION							
CONTAMINATION  Moderate concentration of visible dirt/debris present in the oil.	Silicon	ppm	ASTM D5185m		4		
	Potassium	ppm	ASTM D5185m		0		
	Water	%	ASTM D6304	>0.2	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	▲ MODER		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	HAZY		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	60	65		
	Barium	ppm	ASTM D5185m	0	0		
	Molybdenum	ppm	ASTM D5185m	0	0		
	Manganese	ppm	ASTM D5185m	0	0		
	Magnesium	ppm	ASTM D5185m	0	1		
	Calcium	ppm	ASTM D5185m	0	2		
	Phosphorus	ppm	ASTM D5185m	270	223		
	Zinc	ppm	ASTM D5185m	0	5		
	Sulfur	ppm	ASTM D5185m	11200	7170		
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.42		
Papart Id: EDEL VO [IM] ISCADI 06155775 (Caparatad: 04/24/2024 10:52:27) Pay: 1	Visc @ 40°C	cSt	ASTM D445		233		

Contact/Location: GERRITT LAW - FRELYO







Laboratory Sample No.

: PE0001866 **Lab Number** : 06155775 Unique Number: 10991198

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

: 22 Apr 2024 **Tested** : 24 Apr 2024 Diagnosed

: 24 Apr 2024 - Jonathan Hester

FRERES ENGINEERED WOOD PRODUCTS 141 14TH ST LYONS, OR US 97358

Test Package: PLANT (Additional Tests: FT-IR, ICP, KF, KV40, PQ, PrtCount, SCREEN) Contact: GERRITT LAW glaw@frereswood.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)

T: F: