

KEMP QUARRIES / PRYOR STONE **WL130** Component

Gear Drive Fluid

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: PM-4 changed fluid, lid was not sealed.)

A Wear

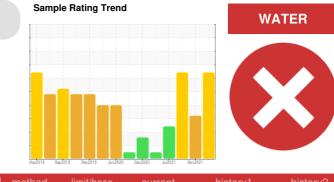
All component wear rates are normal.

Contamination

Appearance is milky. There is a high concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0086365	PCA0034293	PCA0025391
Sample Date		Client Info		15 Jun 2023	23 Nov 2021	22 Sep 2021
Machine Age	hrs	Client Info		4087	25095	3235
Oil Age	hrs	Client Info		4087	3395	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				SEVERE	ABNORMAL	SEVERE
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	152	125	298
Chromium	ppm	ASTM D5185m	>5	<1	<1	1
Nickel	ppm	ASTM D5185m	>8	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	11	A 23
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>500	<1	<1	<1
Tin	ppm	ASTM D5185m	>75	2	0	0
Antimony	ppm	ASTM D5185m			0	7
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	<1
	ррш		limit/base			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	114	214	174
Barium	ppm		0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	<1	<1	1
Manganese	ppm	ASTM D5185m		2	2	4
Magnesium	ppm	ASTM D5185m	9	18	14	18
Calcium	ppm	ASTM D5185m	3114	349	323	546
Phosphorus	ppm	ASTM D5185m	1099	837	1043	817
Zinc	ppm	ASTM D5185m	1245	183	68	58
Sulfur	ppm	ASTM D5185m	7086	20478	22880	12567
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	<mark>/</mark> 79	4 9	1 01
Sodium	ppm	ASTM D5185m		0	0	2
Potassium	ppm	ASTM D5185m	>20	11	2	17
Water	%	ASTM D6304	>0.2	e 2.92	▲ 0.600	2.80
ppm Water	ppm	ASTM D6304	>2000	0 29200	▲ 6000	28000
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	LIGHT	NONE	VLITE
Debris	scalar	*Visual	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML		NORML	🔺 HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	▲ 0.2%	0.2%
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NEG

scalar *Visual

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OIL ANALYSIS REPORT

