

OIL ANALYSIS REPORT

Sample Rating Trend





OR1975 Component Rear Left Final Drive

Machine Id

PETRO CANADA PRODURO TO-4 SAE 30 (10 LTR)

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.

Fluid Condition

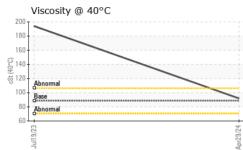
The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113410	GFL0087348	
Sample Date		Client Info		29 Apr 2024	19 Jul 2023	
Machine Age	hrs	Client Info		8207	6950	
Oil Age	hrs	Client Info		1000	6950	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>800	24	56	
Chromium	ppm	ASTM D5185(m)	>10	2	4	
Nickel	ppm	ASTM D5185(m)	>5	0	<1	
Titanium	ppm	ASTM D5185(m)	>15	<1	<1	
Silver	ppm	ASTM D5185(m)	>2	0	0	
Aluminum	ppm	ASTM D5185(m)	>75	7	12	
Lead	ppm	ASTM D5185(m)	>10	0	<1	
Copper	ppm	ASTM D5185(m)	>75	<1	<1	
Tin	ppm	ASTM D5185(m)	>8	0	0	
Antimony	ppm	ASTM D5185(m)	>50	0	0	
Vanadium	ppm	ASTM D5185(m)		0	<1	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	2	2	
Barium	ppm	ASTM D5185(m)	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	0	2	3	
Manganese	ppm	ASTM D5185(m)	9	<1	<1	
Magnesium	ppm	ASTM D5185(m)	1	37	13	
Calcium	ppm	ASTM D5185(m)	3131	3482	3037	
Phosphorus	ppm	ASTM D5185(m)	1194	992	1068	
Zinc	ppm	ASTM D5185(m)	1281	1166	1230	
Sulfur	ppm	ASTM D5185(m)	3811	4308	12015	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>400	29	55	
Sodium	ppm	ASTM D5185(m)		3	5	
Potassium	ppm	ASTM D5185(m)	>20	3	5	



OIL ANALYSIS REPORT

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	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	
Apr29/24	Appearance	scalar	Visual*	NORML	NORML	NORML	
Apr2	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
	Free Water	scalar	Visual*		NEG	NEG	
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)	88.5	91.9	194	
	SAMPLE IMAG	GES	method	limit/base	current	history1	history2
	Color						no image
	Bottom						no image
	GRAPHS						
	Iron (ppm)				Lead (ppm)		
	2000 Severe			30	Severe		
	톱 1000 - Abnormal			²⁰ ط 10	Abnormal		
	0			- 0	ų		
	Jul19/23			Apr29/24 .	Jul19/23 -		Apr29/24 -
	Aluminum (ppm)			A	Chromium (p	pm)	A
	200 - Severe			30	Severe		
	톱 100 - Abnormal			트 10	Abnormal		
	9/23 -			Apr29/24 -	Jul19/23 -		9/24 .
	2/61/nL			Apr2	Jul		Apr29/24
	Copper (ppm)				Silicon (ppm)		
	200 Severe			1000	Severe		
	and Abnormal			툍 500	Abnormal		
	0			0			
	9/23			9/24	9/23		9/24 -
	Jul19/23			Apr29/24	Jul19/23		Apr29/24
	Viscosity @ 40°C				Additives		
	200			4000			
	() 0000 0000 00000 00000 00000000000000			<u>ل</u> 2000	calcium phosphoru	s	
	S 100 - Sase				Zinc		
				0	1/23		1/24 -
	Jul 9/23			Apr29/24	Jul19/23		Apr29/24
Laboratory Sample No. Lab Number Unique Number Test Package		5 Appleby Recei Teste Diagr	ived : 09 d : 09	gton, ON L7L May 2024 May 2024 May 2024 - W		Moo	afleche - Landfill Lafleche Road, ose Creek, ON CA K0C 1W0 arles Bergeron

Test Package : MOB 1 To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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