

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id WL0442 Component

Fluid

Front Differential

PETRO CANADA PRODURO TO-4 SAE 30 (31 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		method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087341		
Sample Date	la va	Client Info		21 Jul 2023		
Machine Age	hrs	Client Info		2232		
Oil Age	hrs	Client Info		2232		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
WEAR METALS	;	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>500	26		
Chromium	ppm	ASTM D5185(m)	>3	<1		
Nickel	ppm	ASTM D5185(m)	>3	<1		
Titanium	ppm	ASTM D5185(m)	>2	<1		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>30	2		
Lead	ppm	ASTM D5185(m)	>13	<1		
Copper	ppm	ASTM D5185(m)	>103	8		
Tin	ppm	ASTM D5185(m)	>5	0		
Antimony	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	14		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	0	4		
Manganese	ppm	ASTM D5185(m)	9	<1		
Magnesium	ppm	ASTM D5185(m)	1	57		
Calcium	ppm	ASTM D5185(m)	3131	3065		
Phosphorus	ppm	ASTM D5185(m)	1194	918		
Zinc	ppm	ASTM D5185(m)	1281	1013		
Sulfur	ppm	ASTM D5185(m)	3811	3429		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANT	ſS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>100	6		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	<1		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	VLITE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>.2	NEG		
Free Water :43:35) Rev: 1	scalar	Visual*		NEG	Submitted By: C	



OIL ANALYSIS REPORT



	FLUID PROF	PERTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)	88.5	75.7		
	SAMPLE IMA	AGES	method	limit/base	current	history1	history2
23	Color					no image	no image
Jul21/23	Bottom					no image	no image
	GRAPHS						
10	Iron (ppm)			30	Lead (ppm)		
	Severe			25	Severe		
5 E.	Abnormal			20 톮 15	Abaamat		
4	100 -			10	Abnormal		
2	00			5			
	Jul21/23			Jul21/23	Jul21/23		
	्र Aluminum (ppm			Ju	弓 Chromium (pr))	
	60 Severe			7	Severe	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	50			5	- Q		
Edd				e ⁴	Abnormal		
	20-			2			
	0			0			
	Jul21/23			Jul21/23	Jul21/23		
2	Copper (ppm)			200	Silicon (ppm)		
	Severe			200	Severe		
	50 Abnormal			150 E 100	Abnormal		
<u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>				톱 100	- 0		
	50			50			
	Jui21/23			Jul21/23	Jul21/23		
	-	-		Jul			
1	Viscosity @ 40°	C		3500	Additives		
	00			3000 2500	calcium phosphorus zinc		
(40	90 - Base			돌.2000			
	70 Abnormal			1500	 		
	60			1000			
	Jul21/23			Jul21/23	Jul21/23		
CALA Laboratory	: WearCheck - C8-	1175 Apple	hyline Rur			ronmental - 790 - 1	
Sample No.	: GFL0087341	Received	d : 26 .	Jul 2023		17125	Lafleche Roa
ccredited Unique Number	: 02572472 : 5617523 : MOB 1	Diagnos Diagnos		Jul 2023 s Davis			ose Creek, O CA K0C 1W arles Bergero
discuss this sample report, co st denoted (*) outside scope o	ontact Customer Se				al lab	cbergero	on@gflenv.co (613)538-485

Test denoted (*) ou Validity of results and interpretation are based on the sample and information as supplied.

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