

OIL ANALYSIS REPORT

Sample Rating Trend



TOTE #1 232961

Component New (Unused) Oil

Fluid PETRO CANADA PRODURO TO-4 SYNTHETIC ALL SEASON (--- GAL)

DIAGNOSIS

Recommendation

This is the baseline readout on this new (unused) oil. The fluid is suitable for service.

Wear

{not applicable}

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the new (unused) oil.

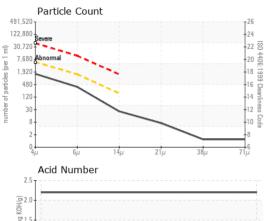
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for service.

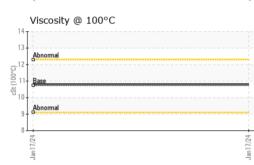
	0AL)			Jan2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0069766		
Sample Date		Client Info		17 Jan 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		2		
Chromium	ppm	ASTM D5185(m)		0		
Nickel	ppm	ASTM D5185(m)		0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		1		
Lead	ppm	ASTM D5185(m)		<1		
Copper	ppm	ASTM D5185(m)		0		
Tin	ppm	ASTM D5185(m)		0		
Antimony	ppm	ASTM D5185(m)		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)	5	<1		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)	1	0		
Magnesium	ppm	ASTM D5185(m)	10	11		
Calcium	ppm	ASTM D5185(m)	3068	3001		
Phosphorus	ppm	ASTM D5185(m)	1081	1010		
Zinc	ppm	ASTM D5185(m)	1199	1149		
Sulfur	ppm	ASTM D5185(m)	4636	4451		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		8		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0		
Nitration	Abs/cm	ASTM D7624*		3.1		
Sulfation	Abs/.1mm	ASTM D7415*		46.1		

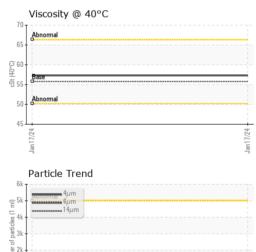


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FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1380		
Particles >6µm		ASTM D7647	>1300	324		
Particles >14µm		ASTM D7647	>160	22		
Particles >21µm		ASTM D7647	>40	6		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		33.5		
Acid Number (AN)	mg KOH/g	ASTM D974*		2.20		
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	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*		NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	55.79	57.3		
Visc @ 100°C	cSt	ASTM D7279(m)	10.74	10.8		
Viscosity Index (VI)	Scale	ASTM D2270*	187	182		
SAMPLE IMAG	iES	method	limit/base	current	history1	history2



