

Machine Id 946022-260306 Component Natural Gas Engine Fluid PETRO CANADA 15W40 (28 QTS)

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0121879	GFL0106870	GFL0092065
Sample Date		Client Info		02 Jul 2024	30 Apr 2024	12 Feb 2024
Machine Age	hrs	Client Info		1220	17373	87692
Oil Age	hrs	Client Info		600	0	0
Filter Age	hrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	9	17	29
Chromium	ppm	ASTM D5185m	>4	<1	1	2
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	3	2
Lead	ppm	ASTM D5185m	>30	0	<1	4
Copper	ppm	ASTM D5185m	>35	1	2	1
Tin	ppm	ASTM D5185m	>4	0	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>+100	3	6	12
Potassium	ppm	ASTM D5185m	>20	0	3	<1
Water	le le	WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.4	11.6	13.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	24.6	27.7
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
~ ···						
Sodium	ppm	ASTM D5185m		11	5	8
Boron	ppm	ASTM D5185m		9	13	10
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		61	65	65
Manganese	ppm	ASTM D5185m		<1	<1 707	1
Magnesium	ppm	ASTM D5185m		623 1840	787	1824
Calcium	ppm	ASTM D5185m		1849	1822	1824
Phosphorus	ppm	ASTM D5185m		707	1093	920
Zinc	ppm	ASTM D5185m		915 2707	1265	1156
Sulfur Oxidation	ppm	ASTM D5185m	. 05	2707 20 5	3317	3104
	Abs/.1mm	*ASTM D7414	>25	20.5	18.8	20.7
Base Number (BN)	mg KOH/g	ASTM D2896		4.2	6.0	3.8
Visc @ 100°C	cSt	ASTM D445		14.7	14.8	14.3

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

