

OIL ANALYSIS REPORT

Sample Rating Trend





Area (YA171056) 9154 Component Natural Gas Engine Fluid

PETRO CANADA 15W40 (5 GAL)

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

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112890	GFL0098155	GFL0098116
Sample Date		Client Info		12 Apr 2024	13 Feb 2024	10 Nov 2023
Machine Age	hrs	Client Info		15527	15527	15527
Oil Age	hrs	Client Info		15527	666	279
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS method		limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	10	14	14
Chromium	ppm	ASTM D5185m	>4	<1	2	2
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	4	6	6
Lead	ppm		>30	0	<1	<1
Copper	ppm	ASTM D5185m		2	4	3
Tin	ppm		>4	- <1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
	pp		11		-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		11	13	10
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		52	49	53
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		630	567	560
Calcium	ppm	ASTM D5185m		1685	1514	1515
Phosphorus	ppm	ASTM D5185m		831	720	735
Zinc	ppm	ASTM D5185m		1058	955	935
Sulfur	ppm	ASTM D5185m		3024	3014	2520
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	4	6
Sodium	ppm	ASTM D5185m		7	7	2
Potassium	ppm	ASTM D5185m	>20	19	37	13
Glycol	%	*ASTM D2982		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.1	10.3	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.2	20.0
FLUID DEGRA	DAT <u>ION</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	17.6	17.5
Base Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896	>20	5.5	4.7	6.0
Dase Number (DN)	iliy KOH/g	NO TIVI D2090		5.5	4./	0.0



OIL ANALYSIS REPORT



Report Id: GFL017 [WUSCAR] 06149303 (Generated: 04/17/2024 14:56:51) Rev: 1

Submitted By: Ren - William Russel