

Area
Fwd Machinery Space [RWA 932]
Machine Id
Generator - PKSG Engine Crank Case (S/N Sample Tag CD-86101-S1)
Component
Diesel Engine
Fluid
PETRO CANADA BP ENERGOL DS3 154 (2670 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0076311	PC0076269	PC
Sample Date	Client Info		22 Jan 2024	11 Dec 2023	26 Sep 2023
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	<1.0
Water	WC Method	>0.1	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m) >25	6	6	6
Chromium	ppm	ASTM D5185(m) >5	0	0	0
Nickel	ppm	ASTM D5185(m) >5	0	0	0
Titanium	ppm	ASTM D5185(m) >2	0	0	0
Silver	ppm	ASTM D5185(m) >2	0	0	<1
Aluminum	ppm	ASTM D5185(m) >10	2	2	1
Lead	ppm	ASTM D5185(m) >5	0	0	<1
Copper	ppm	ASTM D5185(m) >5	<1	<1	<1
Tin	ppm	ASTM D5185(m) >5	0	0	0
Antimony	ppm	ASTM D5185(m)	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	1	2	2
Barium	ppm	ASTM D5185(m) 0	0	0	<1
Molybdenum	ppm	ASTM D5185(m) 0	0	0	0
Manganese	ppm	ASTM D5185(m)	<1	<1	0
Magnesium	ppm	ASTM D5185(m) 15	19	18	16
Calcium	ppm	ASTM D5185(m) 5500	5335	5310	5463
Phosphorus	ppm	ASTM D5185(m) 580	885	882	860
Zinc	ppm	ASTM D5185(m) 650	954	958	973
Sulfur	ppm	ASTM D5185(m) 8500	10399	10571	10138
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

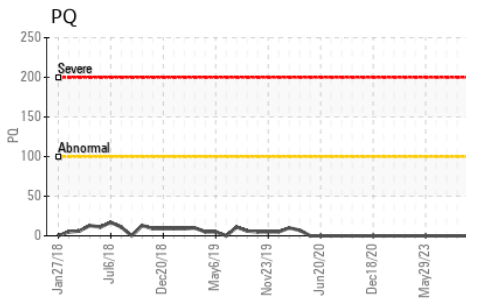
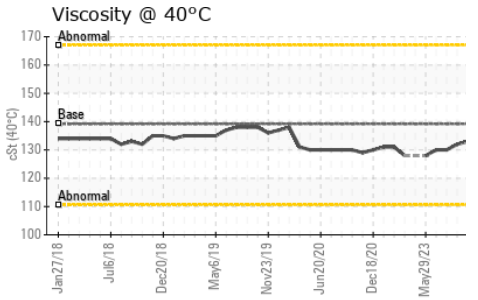
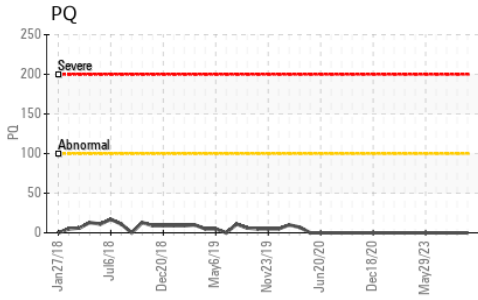
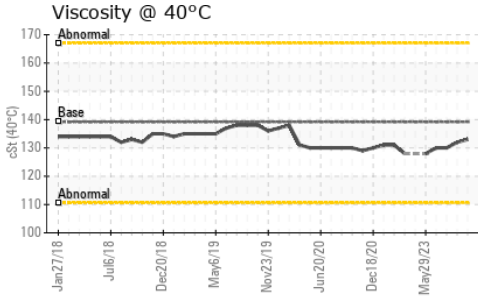
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	5	6	5
Sodium	ppm	ASTM D5185(m)	<1	<1	<1
Potassium	ppm	ASTM D5185(m) >20	<1	<1	<1

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >2	0	0.1	0
Nitration	Abs/cm	ASTM D7624* >20	9.3	9.8	9.7
Sulfation	Abs./1mm	ASTM D7415* >30	14.6	14.8	14.8

OIL ANALYSIS REPORT

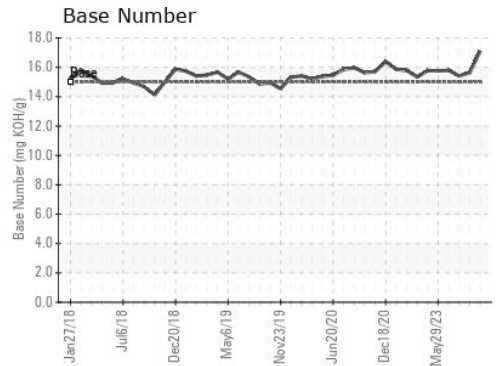
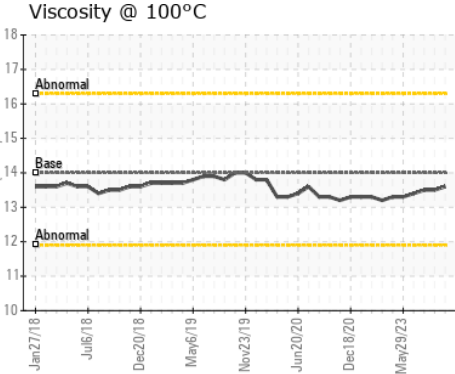
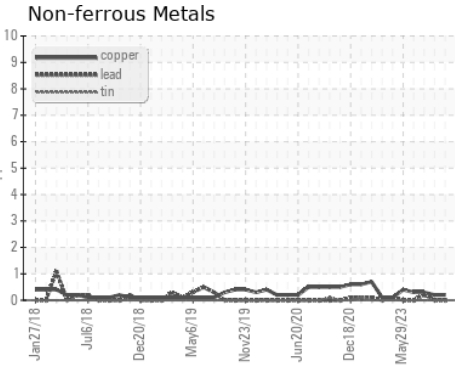
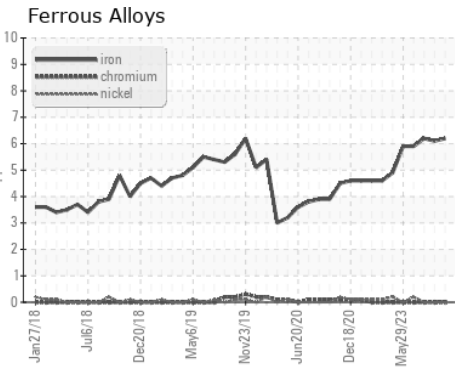


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	7.9	8.2	8.0
Base Number (BN)	mg KOH/g	ASTM D2896*	15	17.10	15.64	15.41

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	139.2	133	132	130
Visc @ 100°C	cSt	ASTM D7279(m)	14.0	13.6	13.5	13.5
Viscosity Index (VI)	Scale	ASTM D2270*	99	97	96	98

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0076311 **Received** : 16 Feb 2024
Lab Number : **02616189** **Tested** : 21 Feb 2024
Unique Number : 5733299 **Diagnosed** : 21 Feb 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: KV40, PQ, PrtCount, VI)

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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.