



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
NORD B67950 NC-NM-SA
 Component
Gearbox
 Fluid
PETRO CANADA 220 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0866808	WC0592508	---
Sample Date	Client Info	29 May 2024	18 Aug 2022	---
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	Not Changed	Not Changed	---
Sample Status		ABNORMAL	ABNORMAL	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	NEG	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >200	25	12	---
Chromium	ppm ASTM D5185m >15	0	0	---
Nickel	ppm ASTM D5185m >15	0	0	---
Titanium	ppm ASTM D5185m	0	0	---
Silver	ppm ASTM D5185m	0	0	---
Aluminum	ppm ASTM D5185m >25	0	<1	---
Lead	ppm ASTM D5185m >100	0	0	---
Copper	ppm ASTM D5185m >200	0	0	---
Tin	ppm ASTM D5185m >25	0	0	---
Vanadium	ppm ASTM D5185m	0	0	---
Cadmium	ppm ASTM D5185m	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0	1	---
Barium	ppm ASTM D5185m	0	0	---
Molybdenum	ppm ASTM D5185m	0	0	---
Manganese	ppm ASTM D5185m	0	<1	---
Magnesium	ppm ASTM D5185m	0	0	---
Calcium	ppm ASTM D5185m	0	0	---
Phosphorus	ppm ASTM D5185m	173	644	---
Zinc	ppm ASTM D5185m	1	6	---
Sulfur	ppm ASTM D5185m	816	576	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	5	<1	---
Sodium	ppm ASTM D5185m	<1	1	---
Potassium	ppm ASTM D5185m >20	0	0	---

FLUID CLEANLINESS

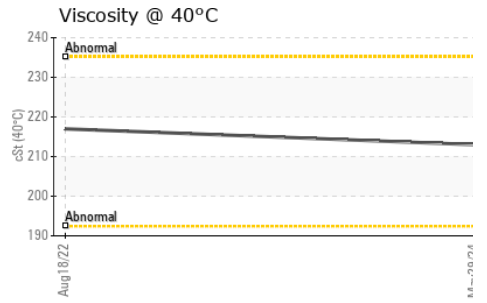
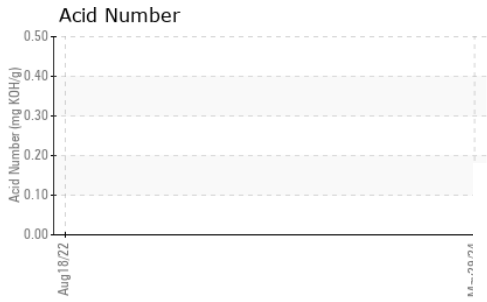
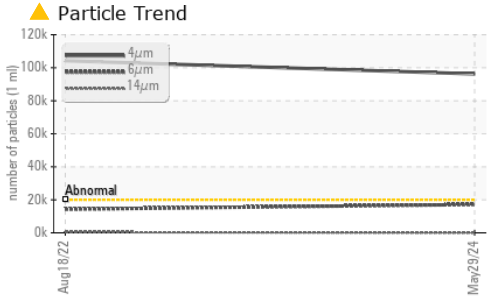
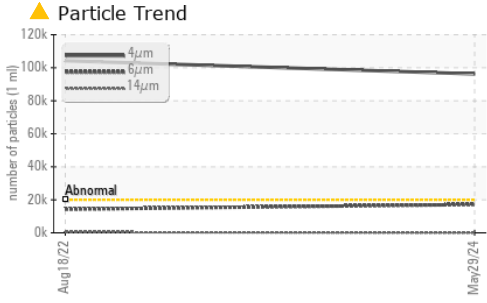
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	▲ 96244	▲ 104234	---
Particles >6µm	ASTM D7647 >5000	▲ 17147	▲ 14270	---
Particles >14µm	ASTM D7647 >640	53	413	---
Particles >21µm	ASTM D7647 >160	3	77	---
Particles >38µm	ASTM D7647 >40	0	1	---
Particles >71µm	ASTM D7647 >10	0	0	---
Oil Cleanliness	ISO 4406 (c) >21/19/16	▲ 24/21/13	▲ 24/21/16	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	0.48	---	---



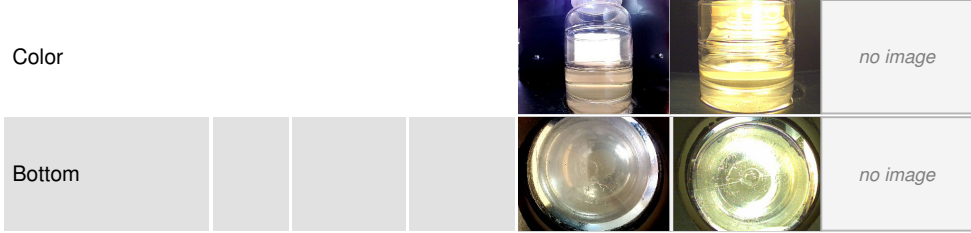
OIL ANALYSIS REPORT



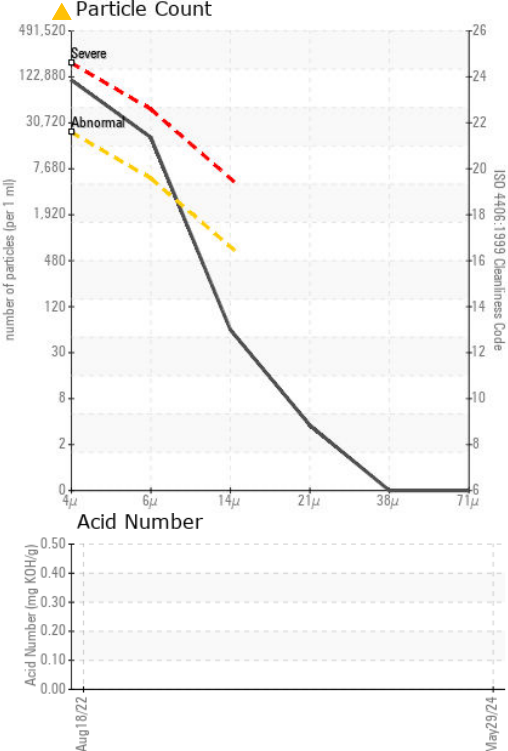
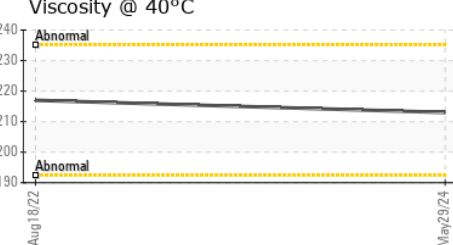
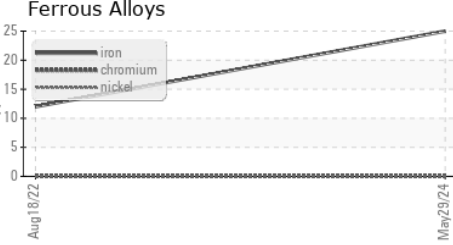
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213	217	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0866808 **Received** : 11 Jun 2024
Lab Number : 06206467 **Tested** : 13 Jun 2024
Unique Number : 11073928 **Diagnosed** : 13 Jun 2024 - Wes Davis
Test Package : IND 2 (Additional Tests: PrtCount)

BURKE CORPORATION.
 1516 SOUTH D AVE
 NEVADA, IA
 US 50201
 Contact: CHRISTIAN POTOCNIK
 CTPOTOCNIK@BURKECORP.COM
 T:

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (515)382-3955