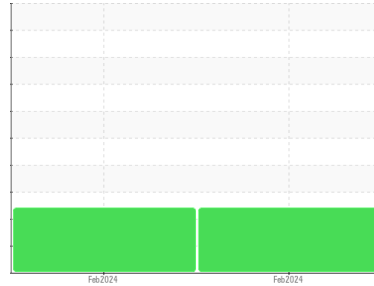


Machine Id
OMC SPRINT SHAKER SH-19 (S/N 20142)
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. NOTE: one of two samples received with same ID and sampling date, different hours.

Wear

All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0107111	PCA0107113	---
Sample Date	Client Info	19 Feb 2024	19 Feb 2024	---
Machine Age	hrs Client Info	3561	3068	---
Oil Age	hrs Client Info	250	250	---
Oil Changed	Client Info	Changed	Changed	---
Sample Status		ABNORMAL	ABNORMAL	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	---
Water	WC Method >0.2	NEG	NEG	---
Glycol	WC Method	NEG	NEG	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	74	79	---
Chromium	ppm ASTM D5185m >20	6	7	---
Nickel	ppm ASTM D5185m >4	2	3	---
Titanium	ppm ASTM D5185m	1	1	---
Silver	ppm ASTM D5185m >3	0	0	---
Aluminum	ppm ASTM D5185m >20	14	16	---
Lead	ppm ASTM D5185m >40	<1	<1	---
Copper	ppm ASTM D5185m >330	5	6	---
Tin	ppm ASTM D5185m >15	<1	1	---
Vanadium	ppm ASTM D5185m	<1	<1	---
Cadmium	ppm ASTM D5185m	<1	<1	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	3	3	---
Barium	ppm ASTM D5185m	2	1	---
Molybdenum	ppm ASTM D5185m	64	62	---
Manganese	ppm ASTM D5185m	2	2	---
Magnesium	ppm ASTM D5185m	932	932	---
Calcium	ppm ASTM D5185m	1060	1055	---
Phosphorus	ppm ASTM D5185m	880	908	---
Zinc	ppm ASTM D5185m	1209	1223	---
Sulfur	ppm ASTM D5185m	3002	3149	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	38	41	---
Sodium	ppm ASTM D5185m	4	3	---
Potassium	ppm ASTM D5185m >20	5	4	---

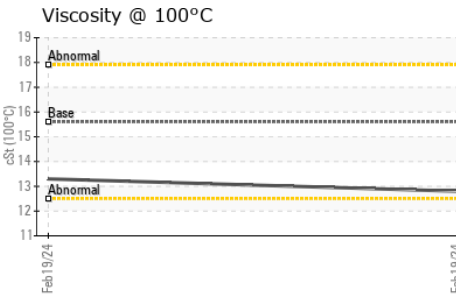
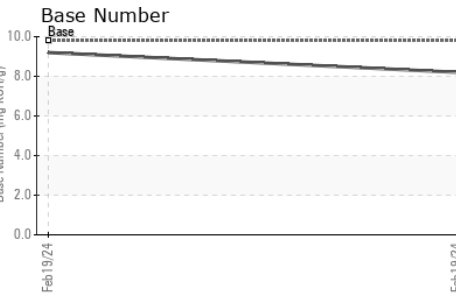
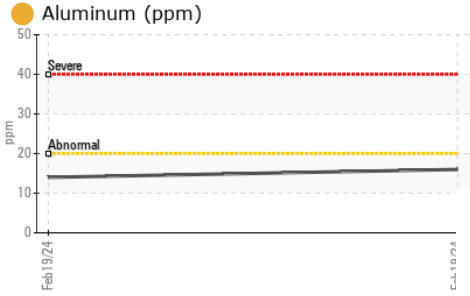
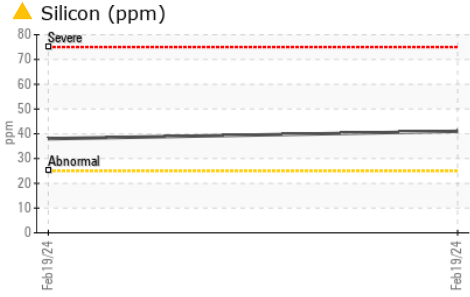
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.1	0.2	---
Nitration	Abs/cm *ASTM D7624 >20	10.3	8.3	---
Sulfation	Abs/.1mm *ASTM D7415 >30	19.2	18.4	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	17.2	15.4	---
Base Number (BN)	mg KOH/g ASTM D2896 9.8	8.2	9.2	---

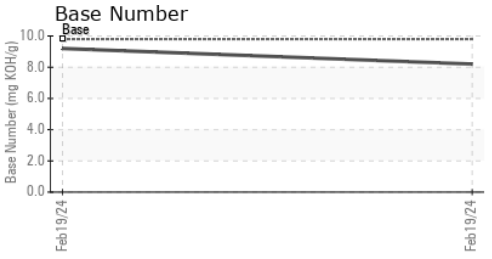
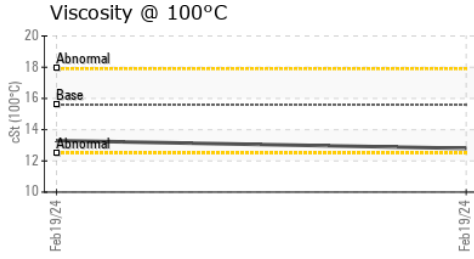
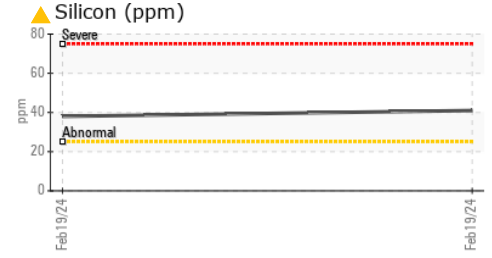
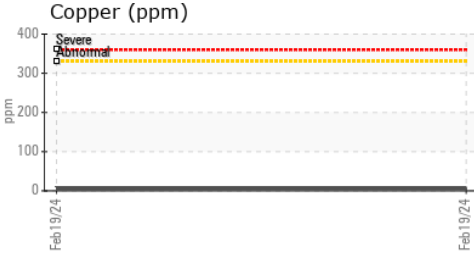
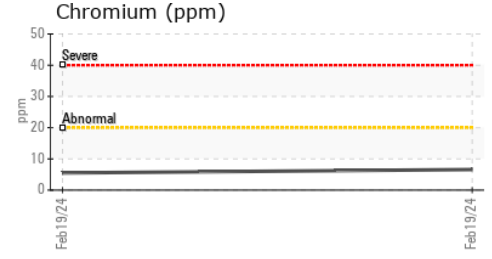
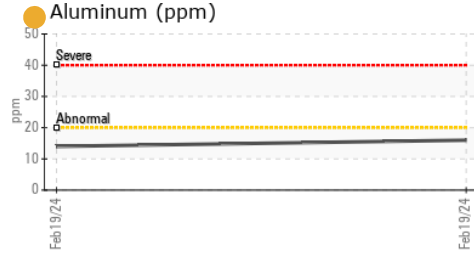
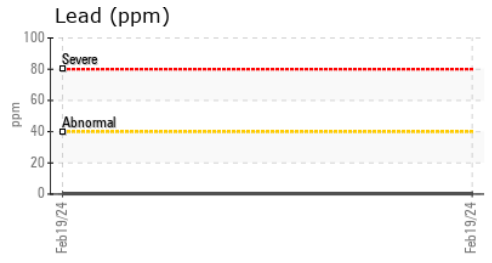
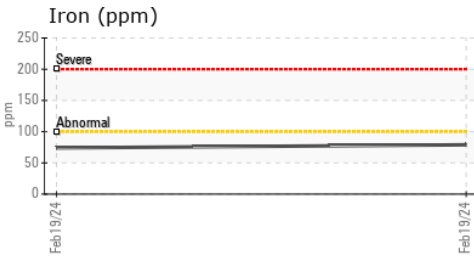
OIL ANALYSIS REPORT



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 @ 100°C	cSt	ASTM D445	15.6	12.8	13.3	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0107111 **Received** : 28 Feb 2024
Lab Number : **06102748** **Tested** : 29 Feb 2024
Unique Number : 10900978 **Diagnosed** : 29 Feb 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

TRINITAS FARMING
 45499 W PANOCHE RD
 FIREBAUGH, CA
 US 93622

Contact: SPENCER COOPER
 spencer.cooper@trinitasfarming.com

T: (209)493-2999

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: