



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[SREP-21004]
 Machine Id
CRANE CARRIER 8098033
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PE0003935	PE0003936	---
Sample Date		Client Info		10 Apr 2024	26 Feb 2024	---
Machine Age	hrs	Client Info		11007	10686	---
Oil Age	hrs	Client Info		596	275	---
Filter Age	hrs	Client Info		596	275	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	21	12	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	3	2	---
Lead	ppm	ASTM D5185m	>40	1	0	---
Copper	ppm	ASTM D5185m	>330	<1	1	---
Tin	ppm	ASTM D5185m	>15	<1	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

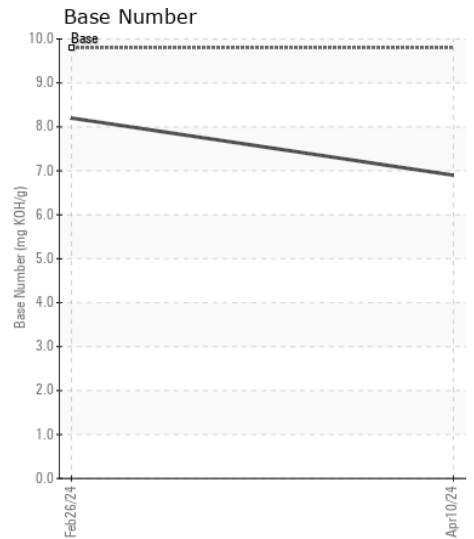
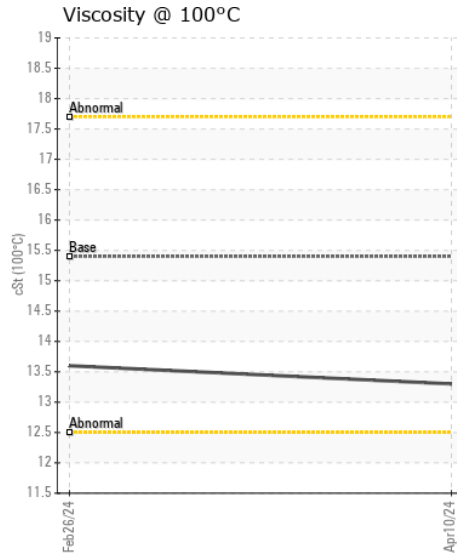
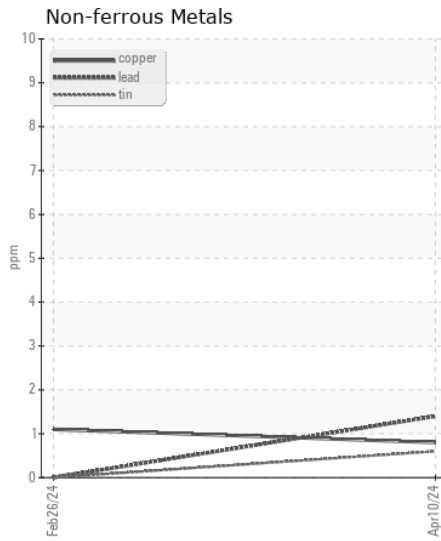
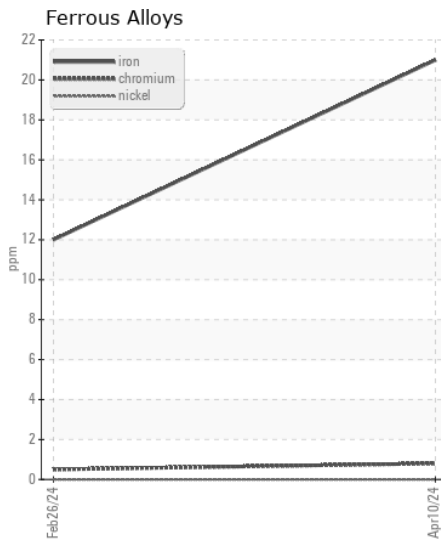
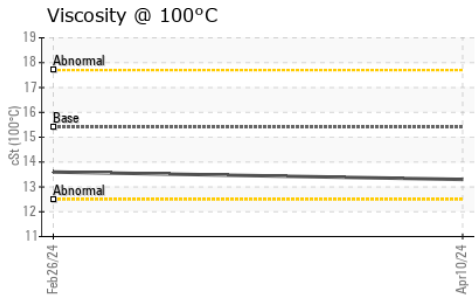
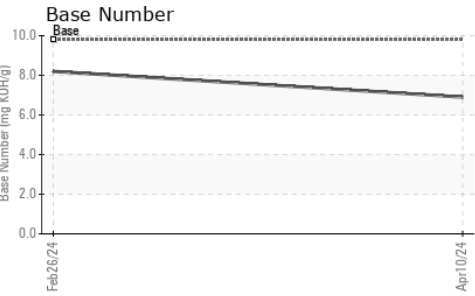
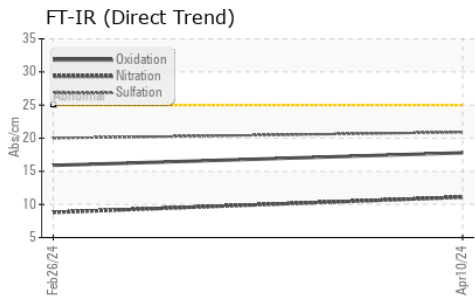
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	3	---
Potassium	ppm	ASTM D5185m	>20	5	3	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.7	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	11.1	8.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	20.0	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

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.

Sodium	ppm	ASTM D5185m		4	4	---
Boron	ppm	ASTM D5185m	0	10	3	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	60	54	55	---
Manganese	ppm	ASTM D5185m	0	<1	<1	---
Magnesium	ppm	ASTM D5185m	1010	966	937	---
Calcium	ppm	ASTM D5185m	1070	1144	1134	---
Phosphorus	ppm	ASTM D5185m	1150	1048	923	---
Zinc	ppm	ASTM D5185m	1270	1222	1166	---
Sulfur	ppm	ASTM D5185m	2060	3447	2962	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	15.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.9	8.2	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0003935 **Received** : 21 May 2024
Lab Number : 06187064 **Tested** : 23 May 2024
Unique Number : 11043816 **Diagnosed** : 23 May 2024 - Sean Felton
Test Package : FLEET (Additional Tests: FT-IR, ICP, KV100, SCREEN, TBN)

CEDAR GROVE
 7343 E MARINGAL WAY S
 SEATTLE, WA
 US 98108
 Contact: CRAIG BOWEN
 craigb@cgcompost.com
 T: (877)764-5748
 F:

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)