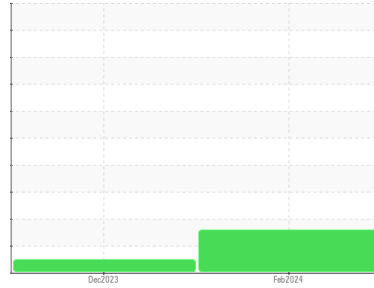


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
(P1021278) Dixon Transport-Tractor
 Machine Id
[Dixon Transport-Tractor] 325A325539
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

The chromium level is abnormal. Valve wear is indicated.

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 acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0114343	PCA0114319	---
Sample Date	Client Info			15 Feb 2024	08 Dec 2023	---
Machine Age	mls Client Info			521648	502002	---
Oil Age	mls Client Info			19646	36662	---
Oil Changed	Client Info			Not Chngd	Changed	---
Sample Status				ABNORMAL	NORMAL	---

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	>80		39	30	---
Chromium	ppm ASTM D5185m	>5		▲ 9	4	---
Nickel	ppm ASTM D5185m	>2		▲ 7	3	---
Titanium	ppm ASTM D5185m			<1	0	---
Silver	ppm ASTM D5185m	>3		0	0	---
Aluminum	ppm ASTM D5185m	>30		13	9	---
Lead	ppm ASTM D5185m	>30		1	<1	---
Copper	ppm ASTM D5185m	>150		4	4	---
Tin	ppm ASTM D5185m	>5		0	0	---
Vanadium	ppm ASTM D5185m			<1	0	---
Cadmium	ppm ASTM D5185m			0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2		8	21	---
Barium	ppm ASTM D5185m	0		0	0	---
Molybdenum	ppm ASTM D5185m	50		58	51	---
Manganese	ppm ASTM D5185m	0		<1	<1	---
Magnesium	ppm ASTM D5185m	950		946	664	---
Calcium	ppm ASTM D5185m	1050		1228	1709	---
Phosphorus	ppm ASTM D5185m	995		1047	878	---
Zinc	ppm ASTM D5185m	1180		1256	992	---
Sulfur	ppm ASTM D5185m	2600		2981	2608	---

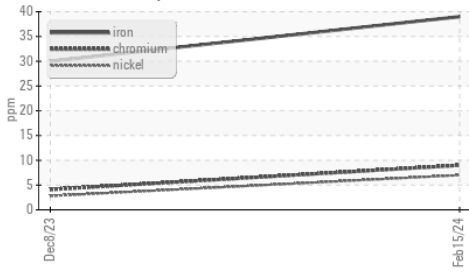
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>20		6	7	---
Sodium	ppm ASTM D5185m			2	<1	---
Potassium	ppm ASTM D5185m	>20		3	1	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3		0.4	0.4	---
Nitration	Abs/cm *ASTM D7624	>20		8.1	9.0	---
Sulfation	Abs/.1mm *ASTM D7415	>30		19.4	21.7	---

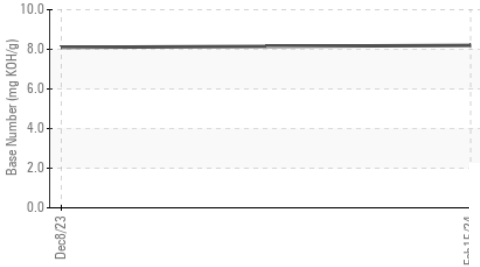
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		16.1	21.6	---
Base Number (BN)	mg KOH/g ASTM D2896			8.2	8.1	---

OIL ANALYSIS REPORT

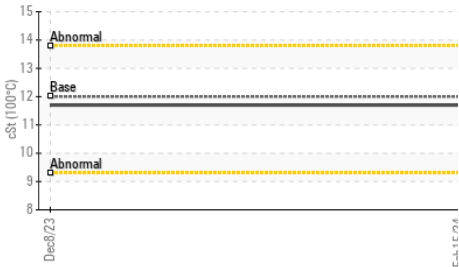
▲ Ferrous Alloys



Base Number



Viscosity @ 100°C

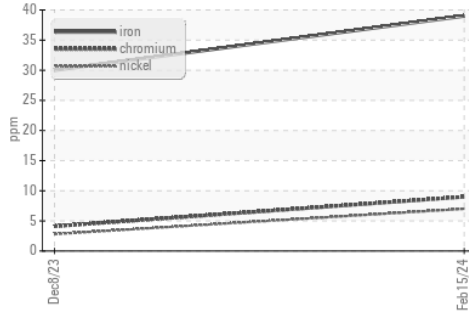


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

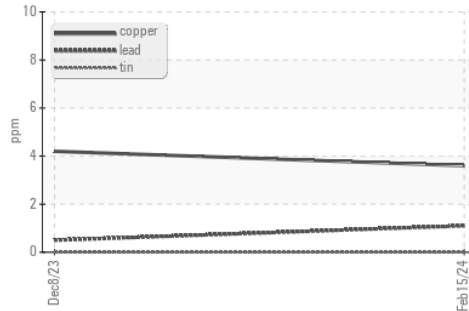
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.7	11.7

GRAPHS

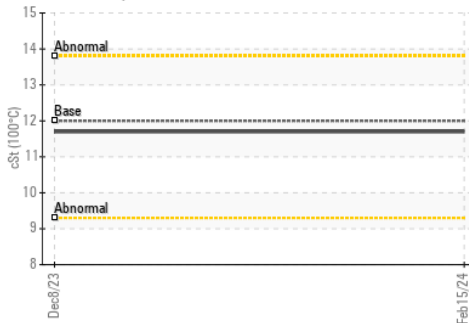
▲ Ferrous Alloys



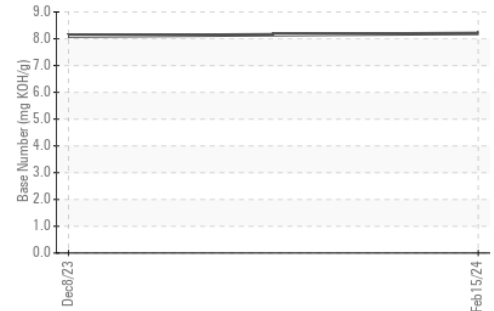
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0114343
Lab Number : 06100723
Unique Number : 10898953
Test Package : FLEET

Received : 26 Feb 2024
Tested : 27 Feb 2024
Diagnosed : 28 Feb 2024 - Don Baldrige

Transervice - Shop 3250 - Dixon Transport
 1124 E. River Road
 Dixon, IL
 US 61021
 Contact: Mike Shoemaker
 Shop3250@transervice.com

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)

T:
F: