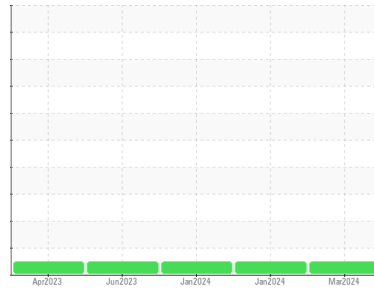


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(97205X) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A62116
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

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	PCA0117890	PCA0105445	PCA0105460
Sample Date	Client Info	15 Mar 2024	09 Jan 2024	08 Jan 2024
Machine Age	mls Client Info	479382	455372	442902
Oil Age	mls Client Info	25000	46591	29000
Oil Changed	Client Info	Not Changed	Changed	Not Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >80	9	12	12
Chromium	ppm ASTM D5185m >5	<1	<1	1
Nickel	ppm ASTM D5185m >2	0	1	<1
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >3	0	<1	0
Aluminum	ppm ASTM D5185m >30	8	8	5
Lead	ppm ASTM D5185m >30	0	<1	0
Copper	ppm ASTM D5185m >150	3	4	4
Tin	ppm ASTM D5185m >5	<1	<1	0
Vanadium	ppm ASTM D5185m	0	<1	<1
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	4	4	5
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 50	62	59	60
Manganese	ppm ASTM D5185m 0	<1	<1	<1
Magnesium	ppm ASTM D5185m 950	1022	935	1042
Calcium	ppm ASTM D5185m 1050	1156	1003	1156
Phosphorus	ppm ASTM D5185m 995	1148	998	1054
Zinc	ppm ASTM D5185m 1180	1363	1259	1342
Sulfur	ppm ASTM D5185m 2600	3688	2615	3034

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	6	6	6
Sodium	ppm ASTM D5185m	1	3	<1
Potassium	ppm ASTM D5185m >20	4	4	2

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.4	0.7	0.5
Nitration	Abs/cm *ASTM D7624 >20	7.5	9.0	8.4
Sulfation	Abs/.1mm *ASTM D7415 >30	19.2	21.7	20.1

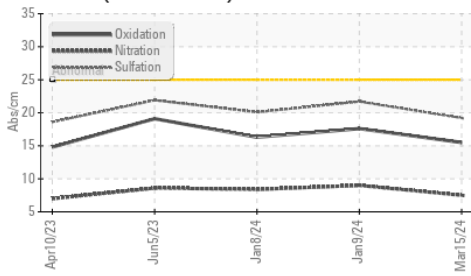
FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	15.5	17.6	16.3
Base Number (BN)	mg KOH/g ASTM D2896	8.4	6.7	7.2

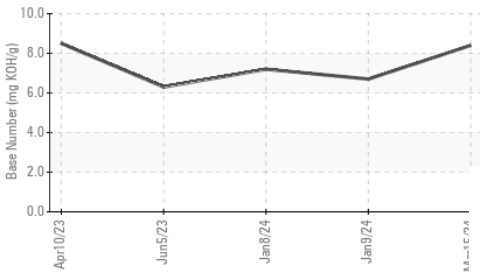


OIL ANALYSIS REPORT

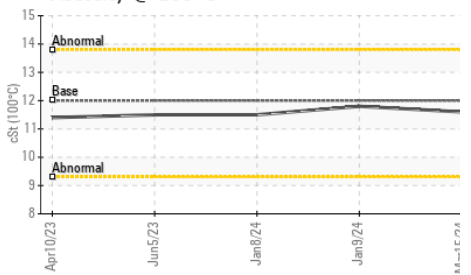
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

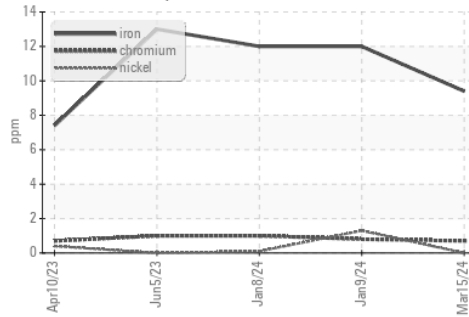


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

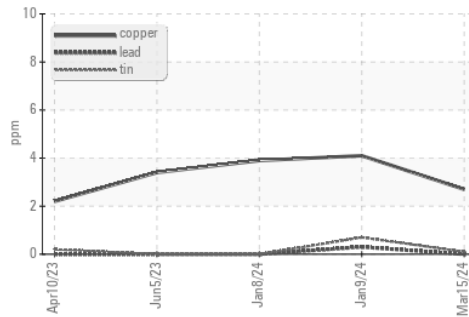
PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.6	11.8

GRAPHS

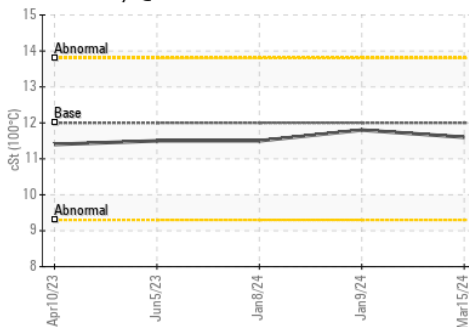
Ferrous Alloys



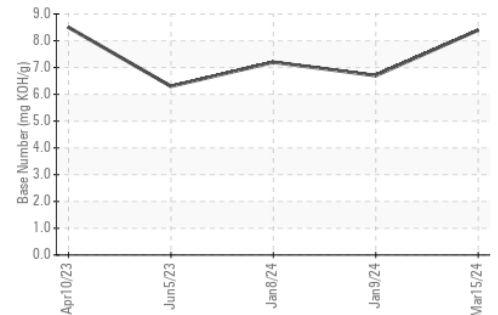
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : PCA0117890
 Lab Number : 06149956
 Unique Number : 10980034
 Test Package : FLEET

Received : 16 Apr 2024
 Tested : 17 Apr 2024
 Diagnosed : 17 Apr 2024 - Wes Davis

Transervice - Shop 1366 - Berkeley-Woodland
 2370 East Main Street
 Woodland, CA
 US 95776

Contact: Gary Mann
 gmann@transervice.com

T: (530)666-7771
 F: (530)406-7971

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)