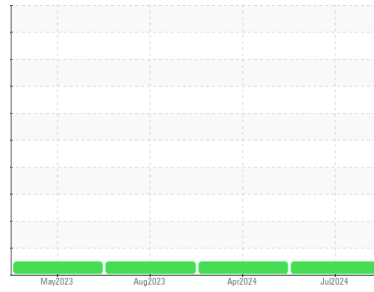


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(16540Z) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A61405
 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			PCA0127881	PCA0117854	PCA0093831
Sample Date	Client Info			03 Jul 2024	18 Apr 2024	01 Aug 2023
Machine Age	mls	Client Info		351120	345685	288480
Oil Age	mls	Client Info		28000	25000	50000
Oil Changed	Client Info			Changed	Changed	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	12	10	16
Chromium	ppm	ASTM D5185m	>5	1	1	1
Nickel	ppm	ASTM D5185m	>2	0	1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	4	4	3
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	3	3	8
Tin	ppm	ASTM D5185m	>5	0	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	0	0
Barium	ppm	ASTM D5185m	0	<1	0	2
Molybdenum	ppm	ASTM D5185m	50	61	59	66
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	1048	922	980
Calcium	ppm	ASTM D5185m	1050	1243	1155	1166
Phosphorus	ppm	ASTM D5185m	995	1120	1011	1041
Zinc	ppm	ASTM D5185m	1180	1338	1217	1295
Sulfur	ppm	ASTM D5185m	2600	3642	3312	2852

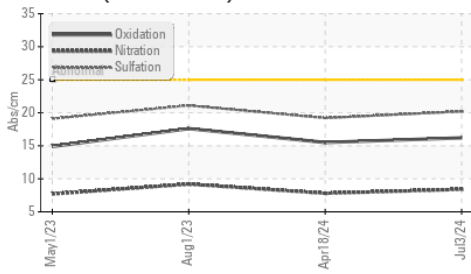
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	5	8
Sodium	ppm	ASTM D5185m		1	2	0
Potassium	ppm	ASTM D5185m	>20	4	2	4

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.8	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	19.2	21.1

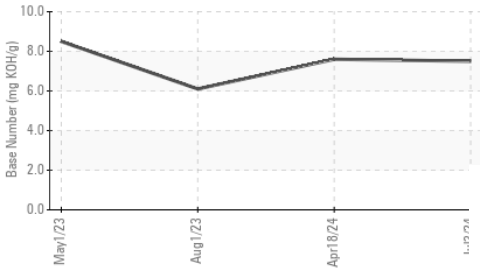
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	15.5	17.6
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	7.6	6.1

OIL ANALYSIS REPORT

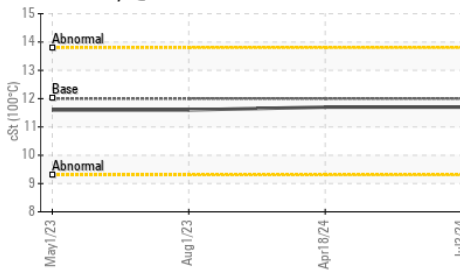
FT-IR (Direct Trend)



Base Number



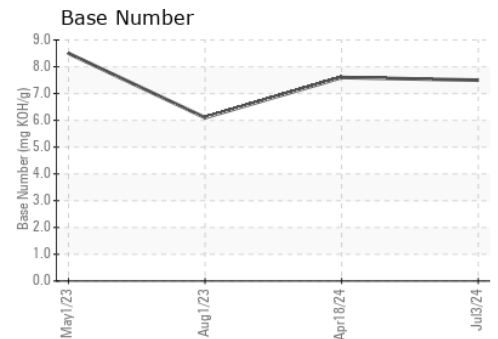
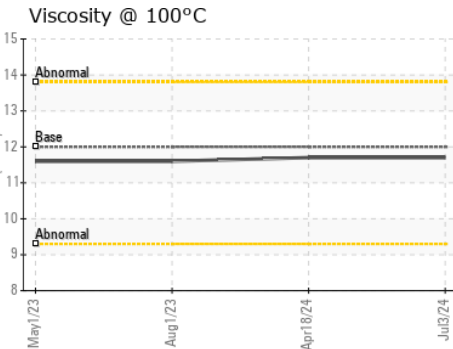
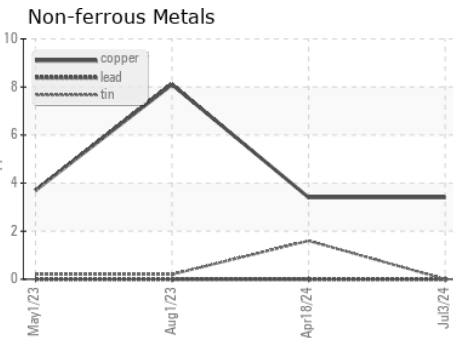
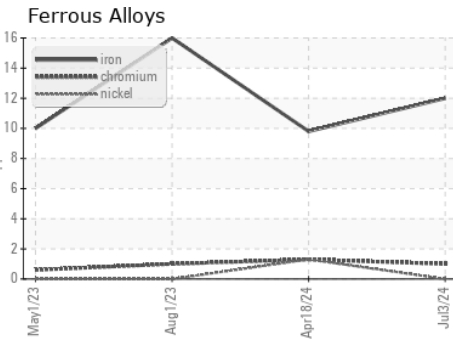
Viscosity @ 100°C



VISUAL	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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.7	11.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0127881
Lab Number : **06237414**
Unique Number : 11126248
Test Package : FLEET

Received : 15 Jul 2024
Tested : 16 Jul 2024
Diagnosed : 16 Jul 2024 - Wes Davis

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

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)

Contact: Gary Mann
 gmann@transervice.com
 T: (530)666-7771
 F: (530)406-7971