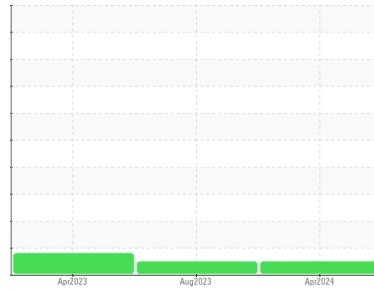


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(AY414B) Supermarket - Tractor
 Machine Id
FREIGHTLINER 107A8858
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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		PCA0116947	PCA0104121	PCA0097052
Sample Date	Client Info		26 Apr 2024	15 Aug 2023	25 Apr 2023
Machine Age	mls	Client Info	85580	44647	29612
Oil Age	mls	Client Info	20095	15035	15726
Oil Changed	Client Info		Changed	Not Changd	Not Changd
Sample Status			NORMAL	NORMAL	ABNORMAL

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	24	55	32
Chromium	ppm	ASTM D5185m >5	2	3	2
Nickel	ppm	ASTM D5185m >2	<1	<1	<1
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >3	1	<1	<1
Aluminum	ppm	ASTM D5185m >30	18	46	31
Lead	ppm	ASTM D5185m >30	<1	2	0
Copper	ppm	ASTM D5185m >150	50	161	▲ 347
Tin	ppm	ASTM D5185m >5	1	3	2
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	2	13	24
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	64	62	60
Manganese	ppm	ASTM D5185m 0	1	3	2
Magnesium	ppm	ASTM D5185m 950	981	853	826
Calcium	ppm	ASTM D5185m 1050	1154	1381	1335
Phosphorus	ppm	ASTM D5185m 995	1080	880	926
Zinc	ppm	ASTM D5185m 1180	1272	1116	1144
Sulfur	ppm	ASTM D5185m 2600	3132	2364	2948

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	6	8	5
Sodium	ppm	ASTM D5185m	2	5	4
Potassium	ppm	ASTM D5185m >20	38	144	88

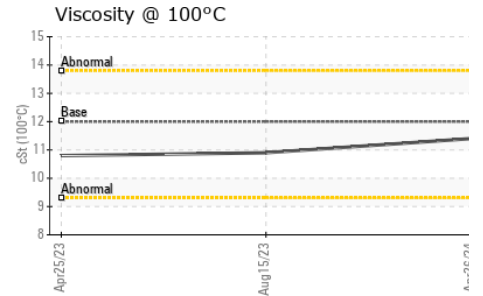
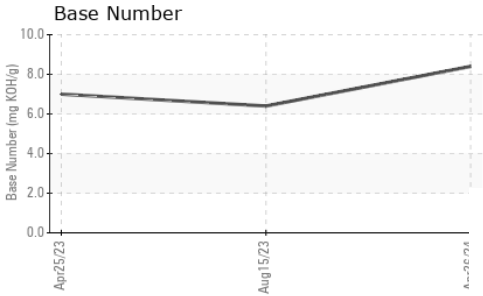
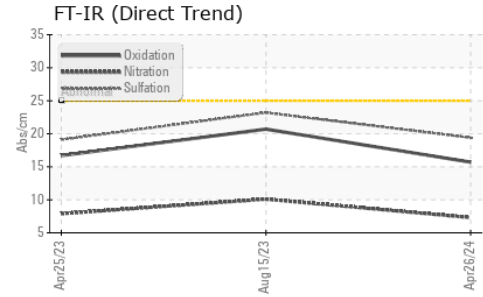
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	1	0.5
Nitration	Abs/cm	*ASTM D7624 >20	7.3	10.1	7.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.4	23.2	19.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.7	20.7	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.4	6.4	7.0

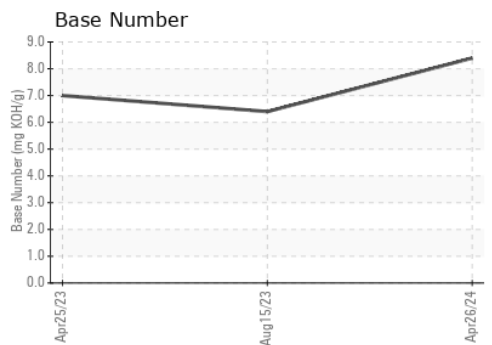
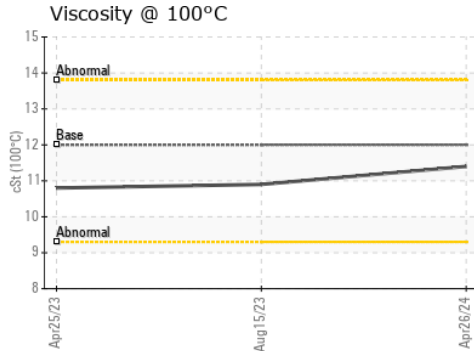
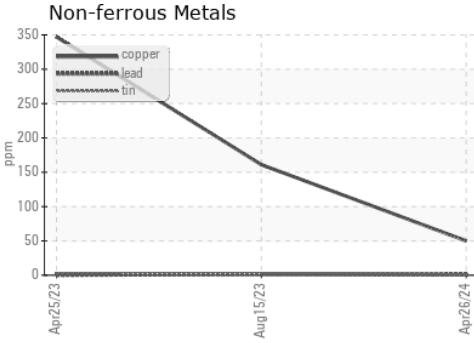
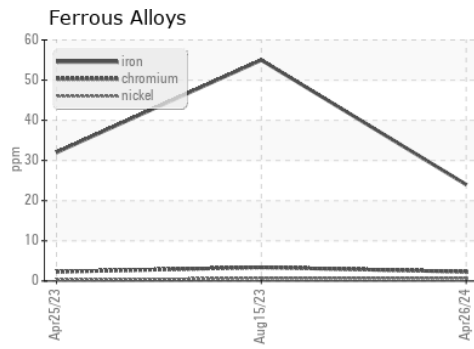
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	11.4	10.9	10.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116947
Lab Number : **06187351**
Unique Number : 11044103
Test Package : FLEET
Received : 22 May 2024
Tested : 23 May 2024
Diagnosed : 23 May 2024 - Wes Davis

Transervice - Shop 1071 - Supermarket-Dayton
 60 A Tower Road
 Dayton, NJ
 US 08810
 Contact: Brian Quinn
 bquinn@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)