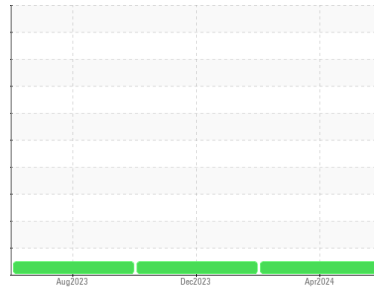


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(AY660D) Supermarket - Tractor
 Machine Id
FREIGHTLINER 107A1857
 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

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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	PCA0116462	PCA0111509	PCA0104827
Sample Date	Client Info	04 Apr 2024	18 Dec 2023	24 Aug 2023
Machine Age	hrs Client Info	103652	79529	57493
Oil Age	hrs Client Info	24123	22036	23573
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	32	36	45
Chromium	ppm ASTM D5185m >5	4	4	4
Nickel	ppm ASTM D5185m >2	<1	<1	<1
Titanium	ppm ASTM D5185m	<1	0	0
Silver	ppm ASTM D5185m >3	<1	<1	0
Aluminum	ppm ASTM D5185m >30	35	56	87
Lead	ppm ASTM D5185m >30	<1	<1	0
Copper	ppm ASTM D5185m >150	68	86	65
Tin	ppm ASTM D5185m >5	<1	1	2
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	4	9	10
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 50	68	62	66
Manganese	ppm ASTM D5185m 0	1	1	2
Magnesium	ppm ASTM D5185m 950	969	935	943
Calcium	ppm ASTM D5185m 1050	1171	1286	1428
Phosphorus	ppm ASTM D5185m 995	970	1061	1020
Zinc	ppm ASTM D5185m 1180	1229	1364	1313
Sulfur	ppm ASTM D5185m 2600	2421	2639	2790

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	6	5	5
Sodium	ppm ASTM D5185m	3	3	4
Potassium	ppm ASTM D5185m >20	68	128	214

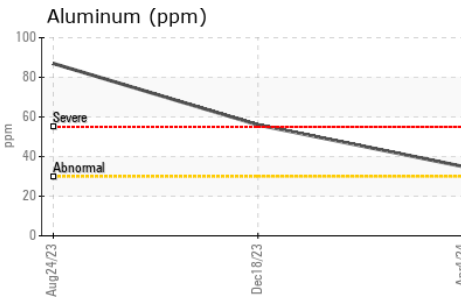
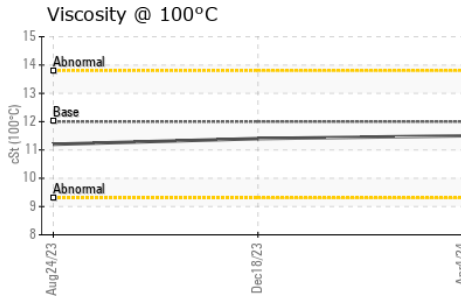
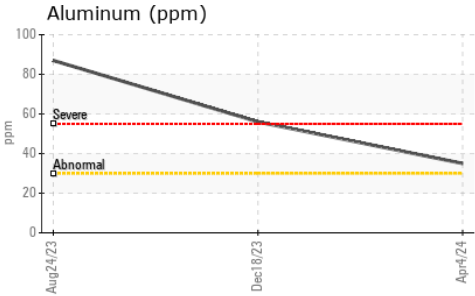
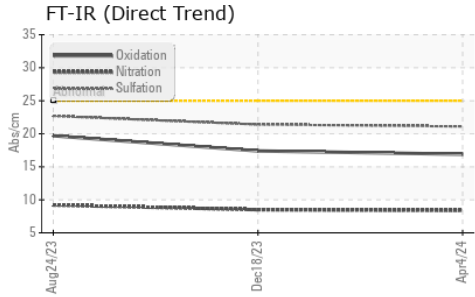
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.9	0.8	0.9
Nitration	Abs/cm *ASTM D7624 >20	8.4	8.5	9.2
Sulfation	Abs/.1mm *ASTM D7415 >30	21.1	21.4	22.7

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	16.9	17.4	19.7
Base Number (BN)	mg KOH/g ASTM D2896	7.5	7.6	7.1

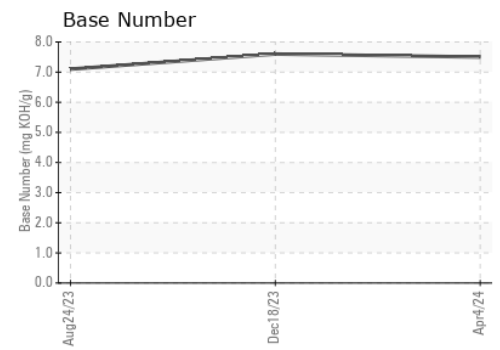
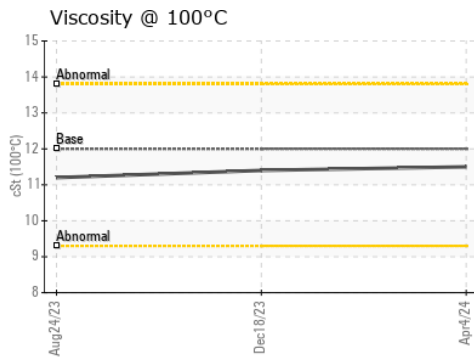
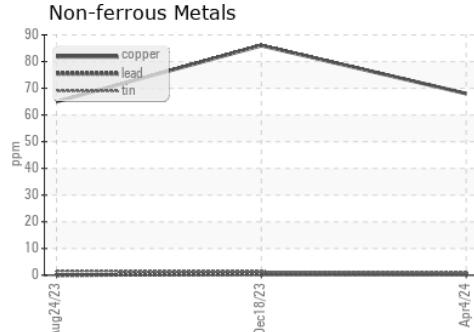
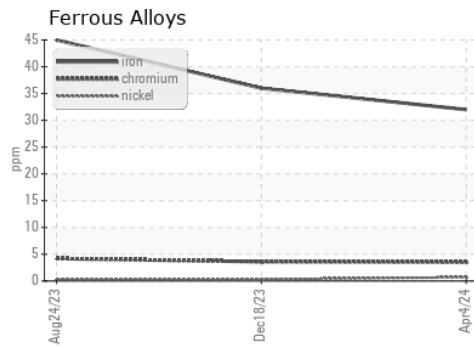
OIL ANALYSIS REPORT



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	11.5	11.4

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116462 **Received** : 08 Apr 2024
Lab Number : 06140870 **Tested** : 08 Apr 2024
Unique Number : 10965678 **Diagnosed** : 08 Apr 2024 - Wes Davis
Test Package : FLEET

Transervice - Shop 1072 - Supermarket-Elizabeth
 505 Division Street
 Elizabeth, NJ
 US 07207
 Contact: Normand Brizak
 nbrizak@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)