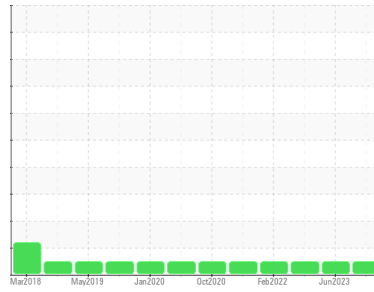


OIL ANALYSIS REPORT

Area
COOPER/FRIEDMAN ELECTRIC SUPPLY
 Machine Id
HINO 388249
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (16 QTS)

Sample Rating Trend



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		PCA0079237	PCA0091447	PCA0077059
Sample Date	Client Info		14 Jun 2024	07 Jun 2023	15 Dec 2022
Machine Age	mls	Client Info	211706	175226	160075
Oil Age	mls	Client Info	22000	15151	18412
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 >100	27	25	21
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >4	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >3	<1	0	0
Aluminum	ppm	ASTM D5185m >20	5	4	7
Lead	ppm	ASTM D5185m >40	2	3	2
Copper	ppm	ASTM D5185m >330	14	3	5
Tin	ppm	ASTM D5185m >15	<1	<1	<1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	5	17	11
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	71	75	73
Manganese	ppm	ASTM D5185m 0	1	1	<1
Magnesium	ppm	ASTM D5185m 950	977	855	848
Calcium	ppm	ASTM D5185m 1050	1179	1218	1186
Phosphorus	ppm	ASTM D5185m 995	954	957	973
Zinc	ppm	ASTM D5185m 1180	1259	1173	1217
Sulfur	ppm	ASTM D5185m 2600	3275	3281	3011

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	4	4	5
Sodium	ppm	ASTM D5185m	8	11	8
Potassium	ppm	ASTM D5185m >20	4	3	5

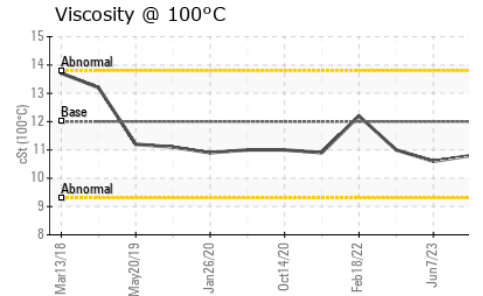
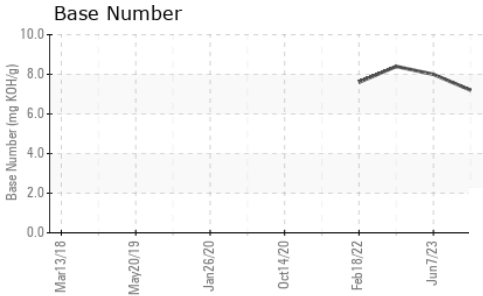
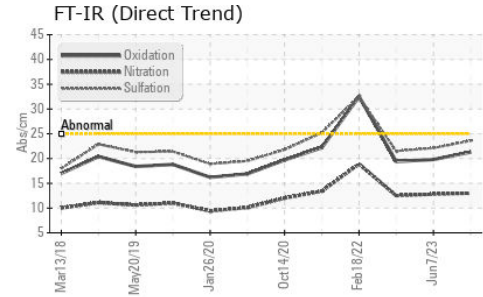
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.2	1.3	1.1
Nitration	Abs/cm	*ASTM D7624 >20	13.0	12.8	12.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.6	22.1	21.5

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	21.3	19.8	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	7.2	8.0	8.4

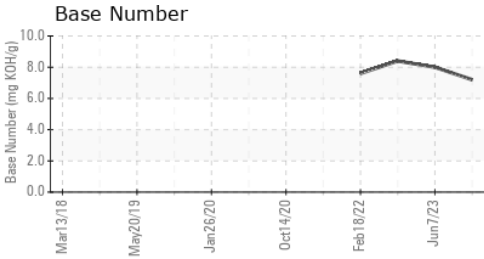
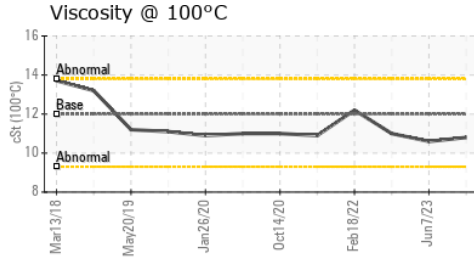
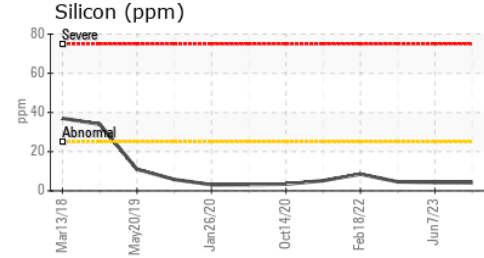
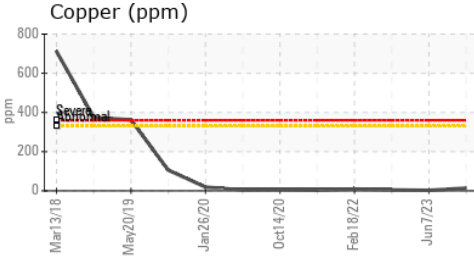
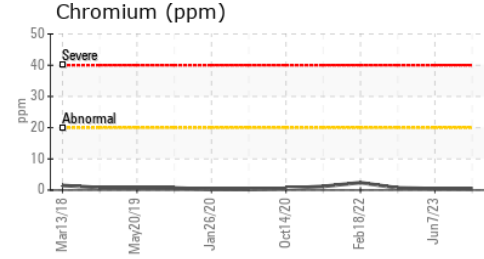
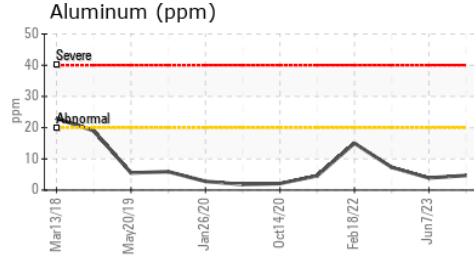
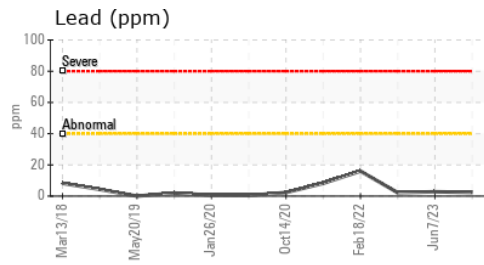
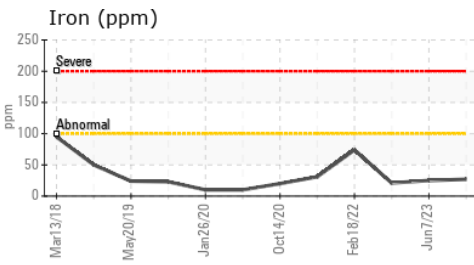
OIL ANALYSIS REPORT



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	10.8	10.6	11.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0079237 **Received** : 26 Jun 2024
Lab Number : 06220703 **Tested** : 27 Jun 2024
Unique Number : 11098900 **Diagnosed** : 27 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

MILLER TRUCK LEASING #121
 107 HOW LANE
 NEW BRUNSWICK, NJ
 US 08901
 Contact: Anthony Cursi
 acursi@millertransgroup.com
 T: (732)358-4027
 F: (732)400-8475

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)