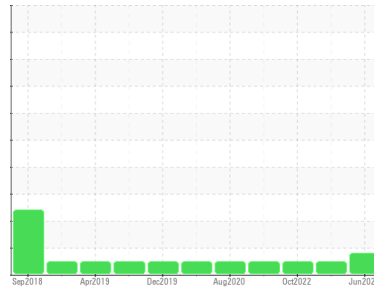


OIL ANALYSIS REPORT

Area
COOPER ELECTRIC
 Machine Id
HINO 388518
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (16 QTS)

Sample Rating Trend



DIAGNOSIS

Recommendation
 Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
 The aluminum level is abnormal. All other 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	PCA0079238	PCA0110167	PCA0077051
Sample Date	Client Info	13 Jun 2024	29 Jan 2024	01 Oct 2022
Machine Age	mls	281237	263669	217283
Oil Age	mls	10000	20000	12316
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		ABNORMAL	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	31	20	12
Chromium	ppm ASTM D5185m >20	<1	0	<1
Nickel	ppm ASTM D5185m >4	0	0	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >20	▲ 26	4	5
Lead	ppm ASTM D5185m >40	2	<1	2
Copper	ppm ASTM D5185m >330	5	5	2
Tin	ppm ASTM D5185m >15	<1	<1	1
Antimony	ppm ASTM D5185m	---	---	---
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	7	14	17
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 50	73	77	75
Manganese	ppm ASTM D5185m 0	2	1	<1
Magnesium	ppm ASTM D5185m 950	1029	876	883
Calcium	ppm ASTM D5185m 1050	1194	1235	1237
Phosphorus	ppm ASTM D5185m 995	1093	1071	982
Zinc	ppm ASTM D5185m 1180	1357	1269	1252
Sulfur	ppm ASTM D5185m 2600	3618	3630	3320

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	6	4	2
Sodium	ppm ASTM D5185m	8	5	4
Potassium	ppm ASTM D5185m >20	13	8	2

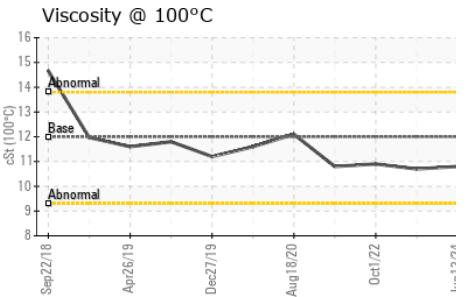
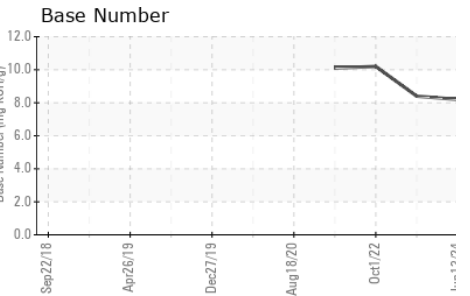
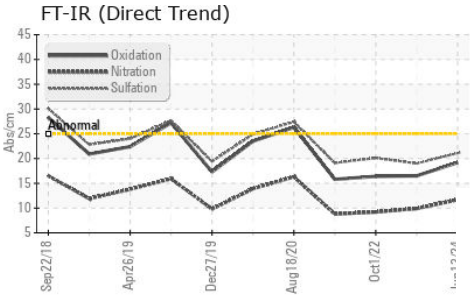
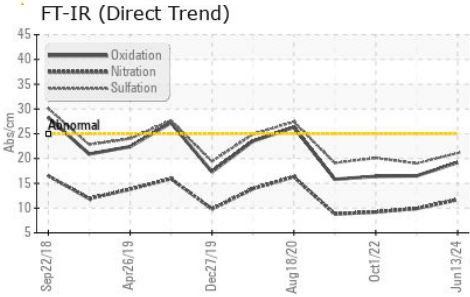
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.9	0.6	0.5
Nitration	Abs/cm *ASTM D7624 >20	11.7	9.9	9.2
Sulfation	Abs/.1mm *ASTM D7415 >30	21.1	19.0	20.1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	19.2	16.5	16.4
Base Number (BN)	mg KOH/g ASTM D2896	8.2	8.4	10.2

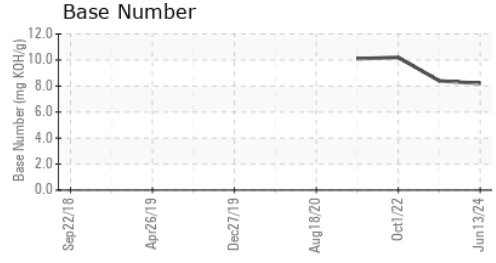
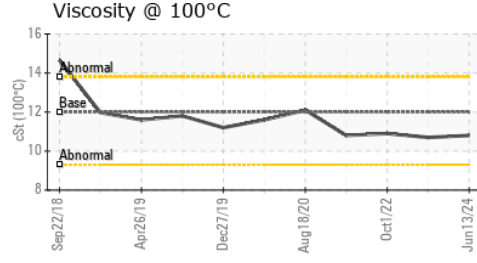
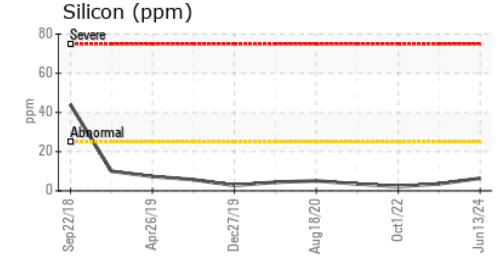
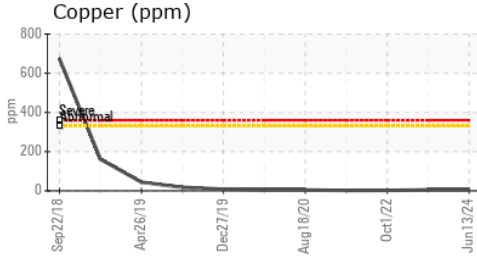
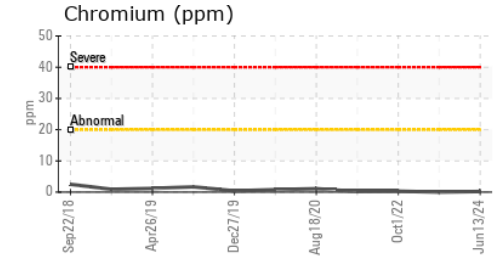
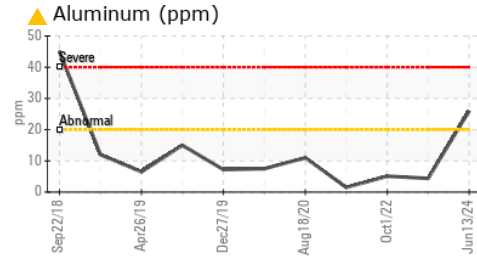
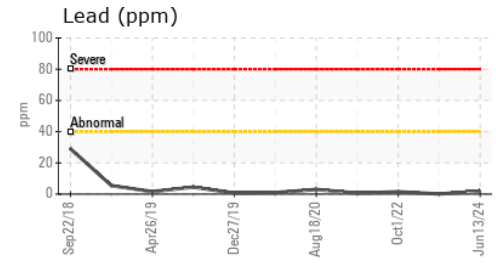
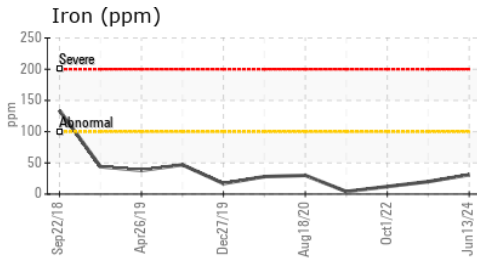
OIL ANALYSIS REPORT



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	10.8	10.7

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0079238 **Received** : 26 Jun 2024
Lab Number : 06220694 **Tested** : 27 Jun 2024
Unique Number : 11098891 **Diagnosed** : 27 Jun 2024 - Angela Borella
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)