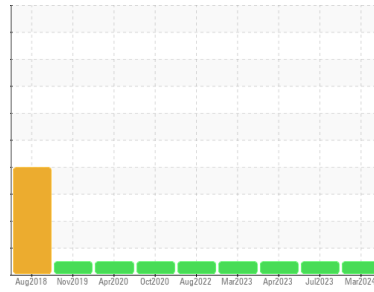


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
COOPER ELECTRIC
 Machine Id
HINO 388515
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (16 QTS)

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	PCA0110222	PCA0099645	PCA0091398	
Sample Date	Client Info	01 Mar 2024	12 Jul 2023	07 Apr 2023	
Machine Age	mls	Client Info	220205	197784	245837
Oil Age	mls	Client Info	20000	15000	15000
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	33	8	25
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >4	0	<1	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >3	0	<1	0
Aluminum	ppm ASTM D5185m >20	15	4	3
Lead	ppm ASTM D5185m >40	5	2	2
Copper	ppm ASTM D5185m >330	7	2	4
Tin	ppm ASTM D5185m >15	1	<1	<1
Vanadium	ppm ASTM D5185m	0	0	<1
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	12	19	15
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 50	74	50	70
Manganese	ppm ASTM D5185m 0	1	<1	<1
Magnesium	ppm ASTM D5185m 950	907	606	952
Calcium	ppm ASTM D5185m 1050	1343	1431	1326
Phosphorus	ppm ASTM D5185m 995	1096	1024	1019
Zinc	ppm ASTM D5185m 1180	1326	1230	1328
Sulfur	ppm ASTM D5185m 2600	3610	2868	3689

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	5	4	4
Sodium	ppm ASTM D5185m	11	7	10
Potassium	ppm ASTM D5185m >20	18	4	4

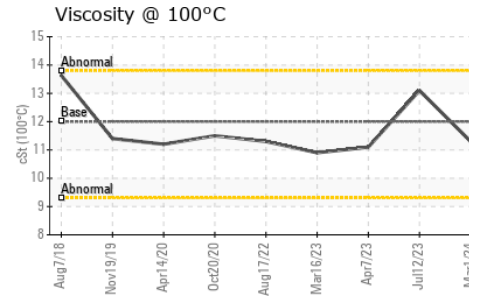
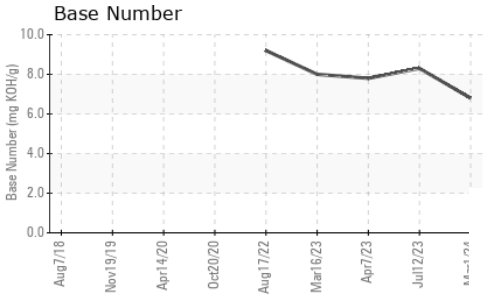
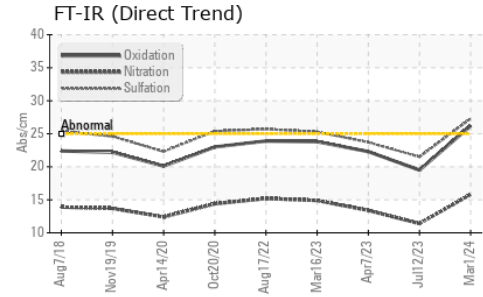
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	1.6	0.7	1.1
Nitration	Abs/cm *ASTM D7624 >20	15.8	11.4	13.4
Sulfation	Abs/.1mm *ASTM D7415 >30	27.3	21.5	23.7

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	26.2	19.5	22.3
Base Number (BN)	mg KOH/g ASTM D2896	6.8	8.3	7.8

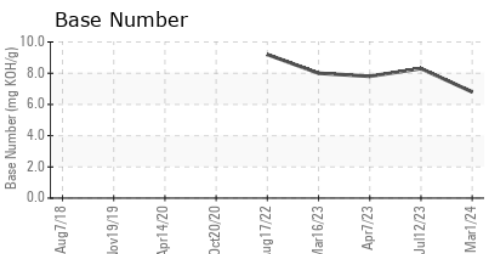
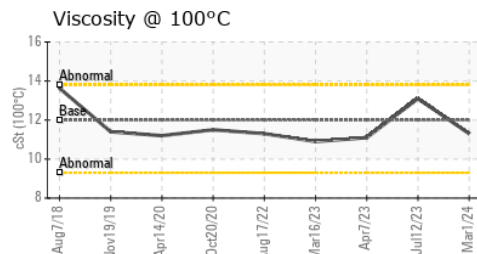
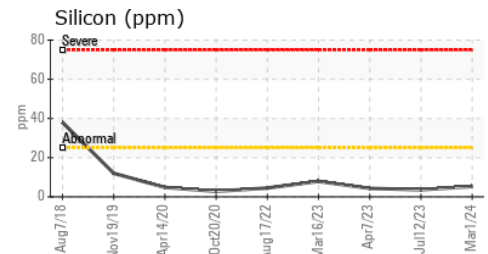
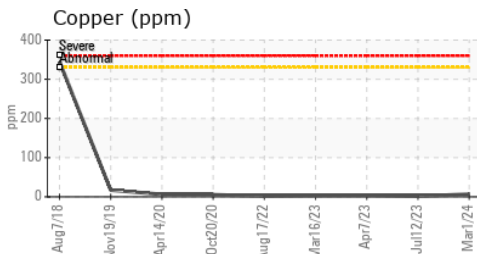
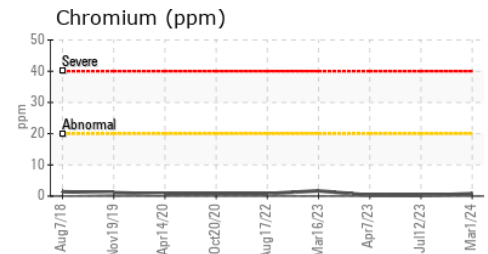
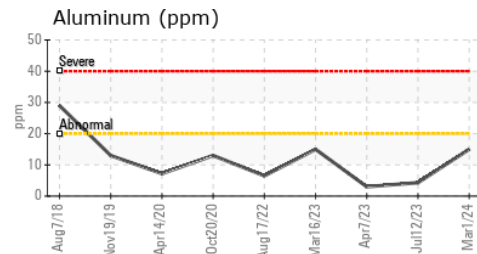
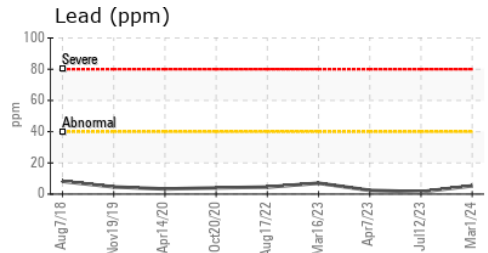
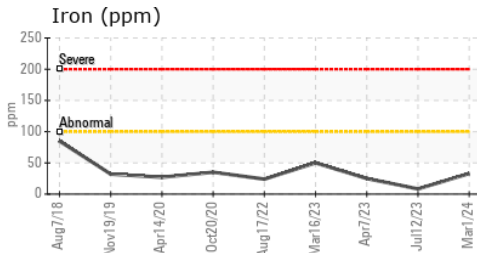
OIL ANALYSIS REPORT



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	11.3	13.1	11.1

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0110222 **Received** : 12 Apr 2024
Lab Number : 06147089 **Tested** : 15 Apr 2024
Unique Number : 10977167 **Diagnosed** : 15 Apr 2024 - Sean Felton
Test Package : MOB 1 (Additional Tests: TBN)

MILLER TRUCK LEASING #121
 107 HOW LANE
 NEW BRUNSWICK, NJ
 US 08901

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: Anthony Cursi
acursi@millertransgroup.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (732)358-4027

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (732)400-8475