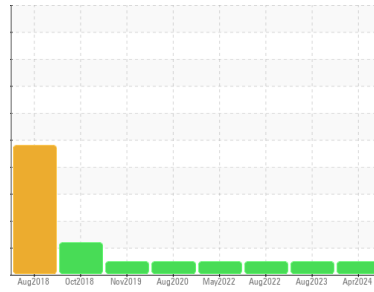


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
HINO 388517
 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		PCA0124007	PCA0099732	PCA0077018
Sample Date	Client Info		23 Apr 2024	23 Aug 2023	22 Aug 2022
Machine Age	mls	Client Info	0	220749	194714
Oil Age	mls	Client Info	0	0	10000
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	56	15	12
Chromium	ppm	ASTM D5185m >20	1	<1	<1
Nickel	ppm	ASTM D5185m >4	<1	<1	<1
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >3	0	<1	0
Aluminum	ppm	ASTM D5185m >20	15	8	7
Lead	ppm	ASTM D5185m >40	0	2	2
Copper	ppm	ASTM D5185m >330	69	3	1
Tin	ppm	ASTM D5185m >15	6	1	2
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	32	13	15
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	44	63	83
Manganese	ppm	ASTM D5185m 0	9	1	<1
Magnesium	ppm	ASTM D5185m 950	595	858	870
Calcium	ppm	ASTM D5185m 1050	1607	1169	1192
Phosphorus	ppm	ASTM D5185m 995	827	1073	989
Zinc	ppm	ASTM D5185m 1180	1004	1285	1218
Sulfur	ppm	ASTM D5185m 2600	2676	3048	3266

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	11	4	2
Sodium	ppm	ASTM D5185m	7	9	5
Potassium	ppm	ASTM D5185m >20	10	8	9

INFRA-RED

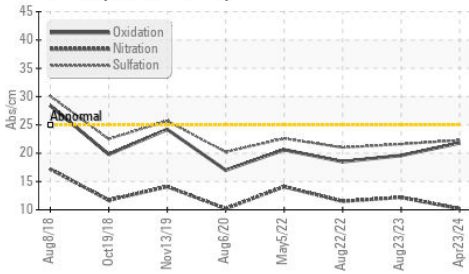
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.6	0.9	0.8
Nitration	Abs/cm	*ASTM D7624 >20	10.2	12.2	11.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.3	21.6	21.0

FLUID DEGRADATION

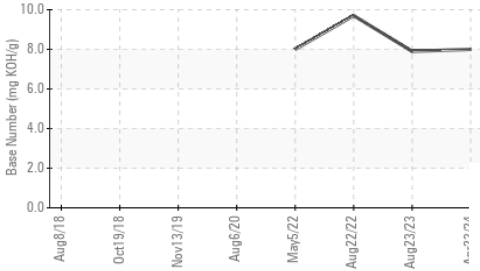
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	21.8	19.6	18.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.0	7.9	9.7

OIL ANALYSIS REPORT

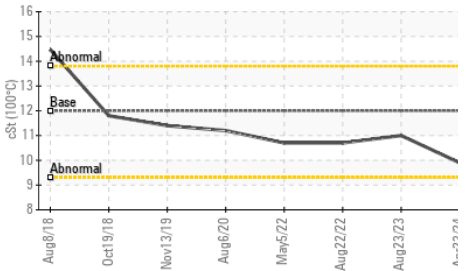
FT-IR (Direct Trend)



Base Number



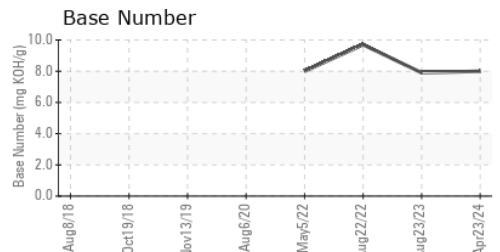
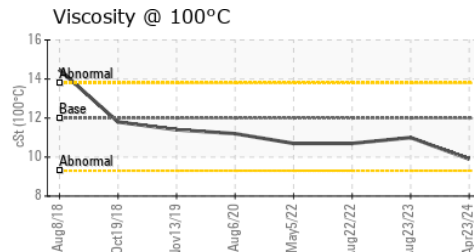
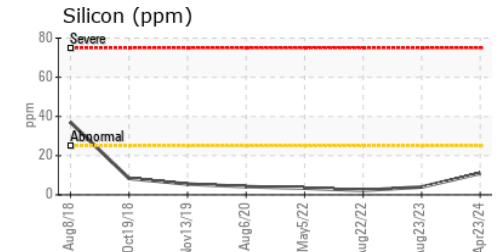
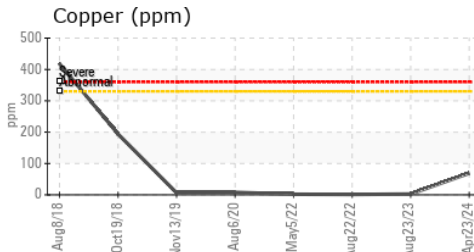
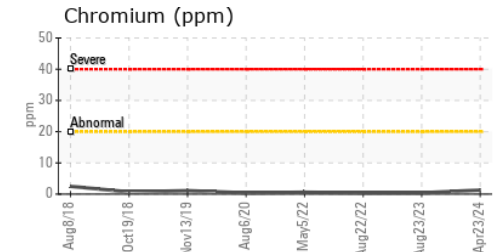
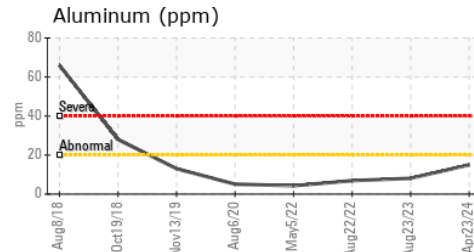
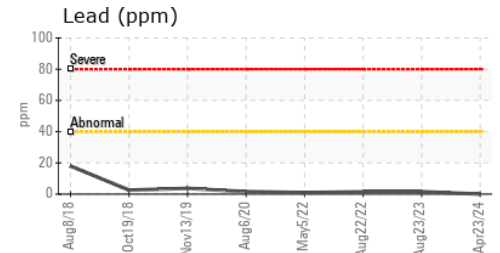
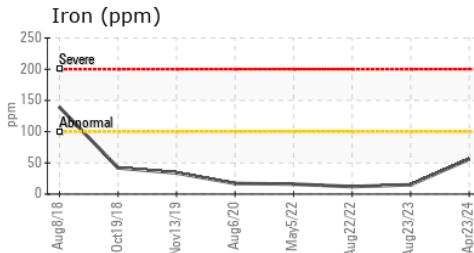
Viscosity @ 100°C



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	9.9	11.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0124007 **Received** : 24 May 2024
Lab Number : **06191612** **Tested** : 29 May 2024
Unique Number : 11048364 **Diagnosed** : 29 May 2024 - Angela Borella
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