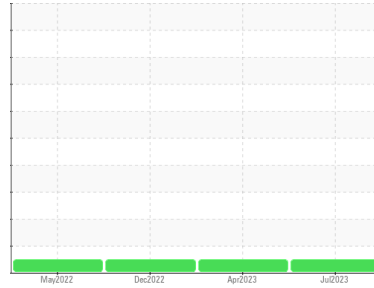


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
422672

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- 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 acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	PCA0102992	PCA0095911	PCA0088170	
Sample Date	Client Info	28 Jul 2023	13 Apr 2023	20 Dec 2022	
Machine Age	mls	Client Info	39674	31957	22363
Oil Age	mls	Client Info	0	0	0
Oil Changed	Client Info	Not Changed	N/A	Not Changed	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	100	89	90
Chromium	ppm ASTM D5185m >20	2	2	2
Nickel	ppm ASTM D5185m >4	1	<1	1
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >20	23	19	17
Lead	ppm ASTM D5185m >40	<1	0	<1
Copper	ppm ASTM D5185m >330	32	31	37
Tin	ppm ASTM D5185m >15	5	4	5
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	17	20	26
Barium	ppm ASTM D5185m 0	0	2	0
Molybdenum	ppm ASTM D5185m 50	47	45	43
Manganese	ppm ASTM D5185m 0	8	8	9
Magnesium	ppm ASTM D5185m 950	679	628	593
Calcium	ppm ASTM D5185m 1050	1691	1524	1791
Phosphorus	ppm ASTM D5185m 995	791	748	761
Zinc	ppm ASTM D5185m 1180	1066	981	983
Sulfur	ppm ASTM D5185m 2600	2865	2470	2632

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	15	13	19
Sodium	ppm ASTM D5185m	8	6	7
Potassium	ppm ASTM D5185m >20	36	30	30

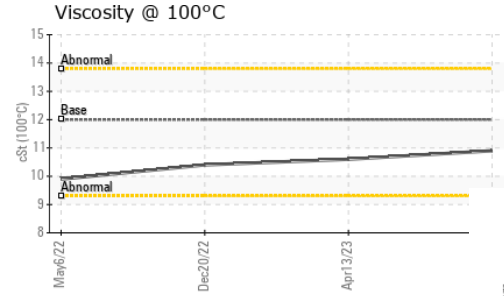
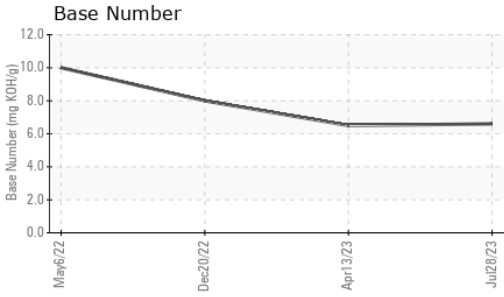
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	1.1	0.8	0.7
Nitration	Abs/cm *ASTM D7624 >20	13.7	11.9	12
Sulfation	Abs/.1mm *ASTM D7415 >30	25.6	22.4	23.8

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	25.7	22.6	23.4
Base Number (BN)	mg KOH/g ASTM D2896	6.6	6.5	8

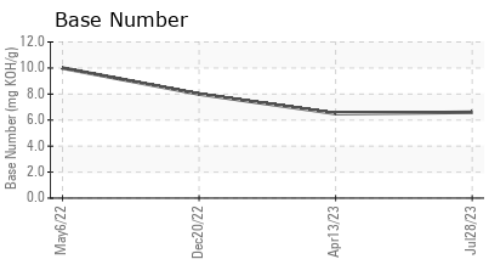
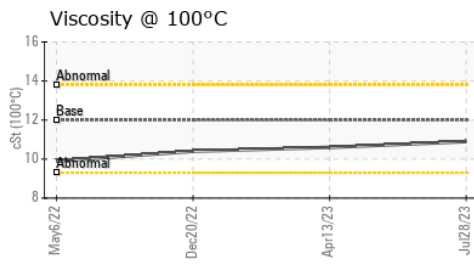
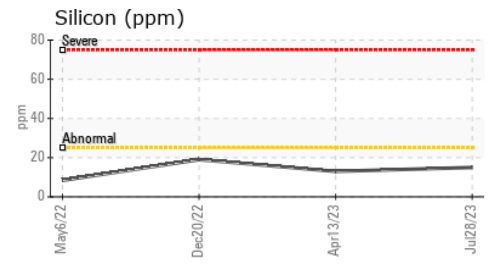
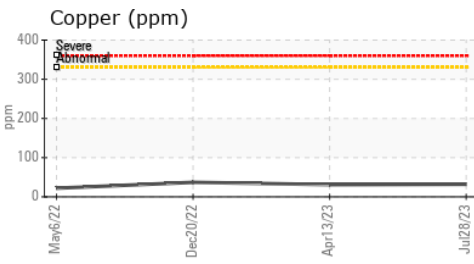
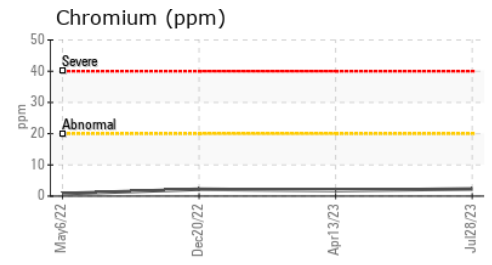
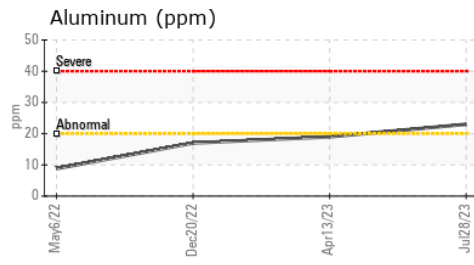
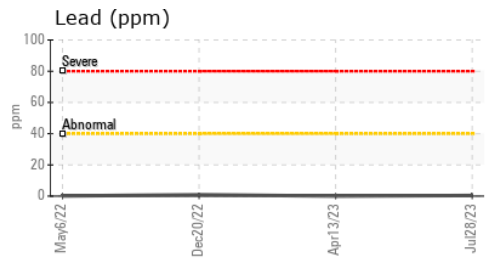
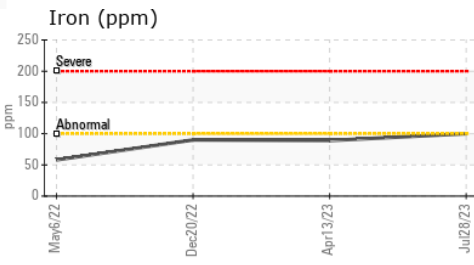
OIL ANALYSIS REPORT



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	10.9	10.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0102992 **Received** : 16 Aug 2023
Lab Number : 05925761 **Diagnosed** : 17 Aug 2023
Unique Number : 10605708 **Diagnostician** : Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

MILLER TRUCK LEASING #119
 39 INDUSTRIAL AVE
 HASBROUCK HEIGHTS, NJ
 US 07604
 Contact: MIKE LONGETTE
 mlongette@millertransgroup.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)

F: (201)528-7053