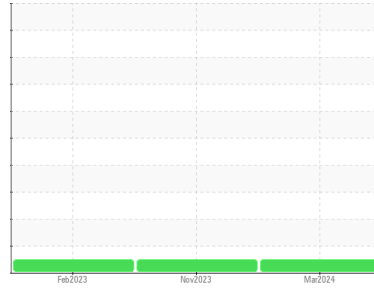


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
228292
 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 suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0110688	PCA0097356	PCA0083894
Sample Date	Client Info			31 Mar 2024	25 Nov 2023	26 Feb 2023
Machine Age	mls	Client Info		130758	109102	61301
Oil Age	mls	Client Info		21656	47801	61301
Oil Changed	Client Info			Not Chngd	N/A	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	20	42	59
Chromium	ppm	ASTM D5185m	>20	2	3	3
Nickel	ppm	ASTM D5185m	>4	<1	<1	1
Titanium	ppm	ASTM D5185m		53	1	2
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	16	38	48
Lead	ppm	ASTM D5185m	>40	<1	2	3
Copper	ppm	ASTM D5185m	>330	115	230	346
Tin	ppm	ASTM D5185m	>15	2	4	7
Vanadium	ppm	ASTM D5185m		1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0

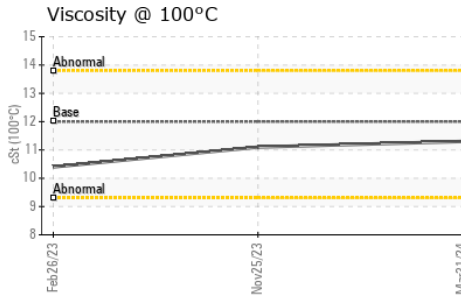
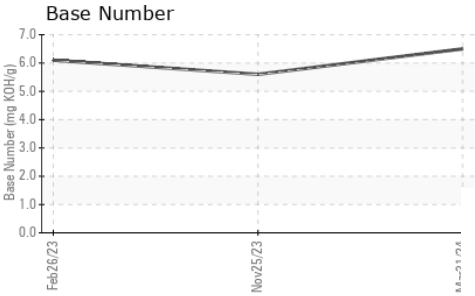
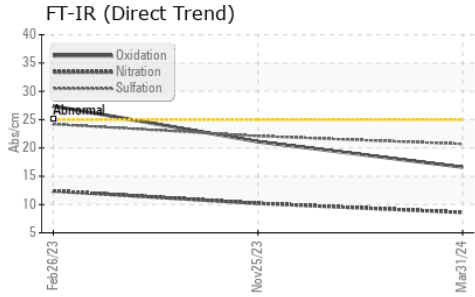
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	45	3	19
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	22	60	41
Manganese	ppm	ASTM D5185m	0	1	2	5
Magnesium	ppm	ASTM D5185m	950	545	989	514
Calcium	ppm	ASTM D5185m	1050	1564	1359	1745
Phosphorus	ppm	ASTM D5185m	995	920	1043	695
Zinc	ppm	ASTM D5185m	1180	1158	1246	924
Sulfur	ppm	ASTM D5185m	2600	3148	2354	1828

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	5	9
Sodium	ppm	ASTM D5185m		2	3	7
Potassium	ppm	ASTM D5185m	>20	33	76	109

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.8	0.8
Nitration	Abs/cm	*ASTM D7624	>20	8.6	10.2	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	22.1	24.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	21.1	27.4
Base Number (BN)	mg KOH/g	ASTM D2896		6.5	5.6	6.1

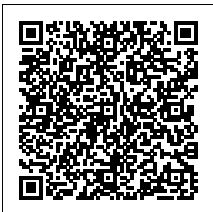
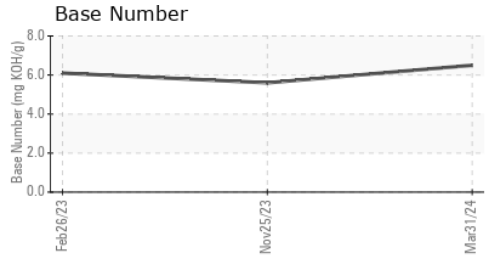
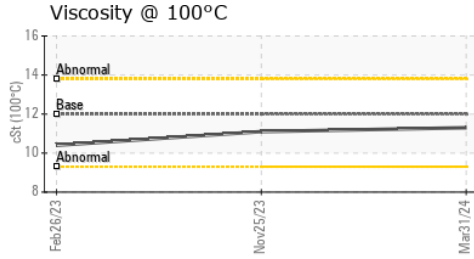
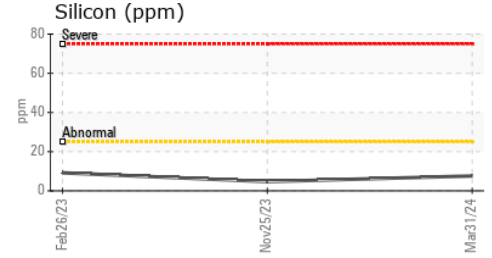
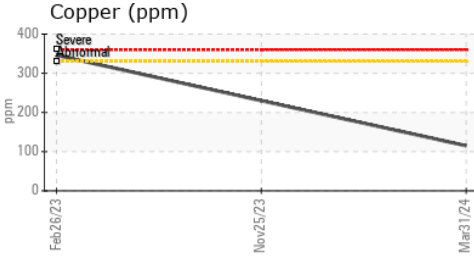
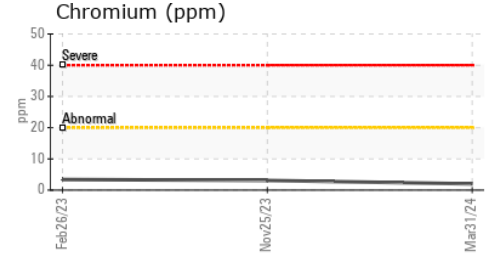
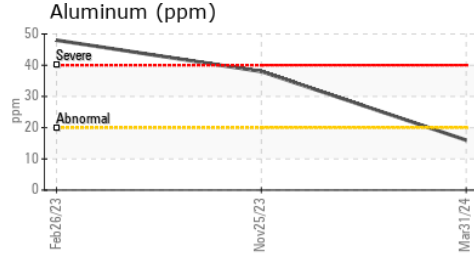
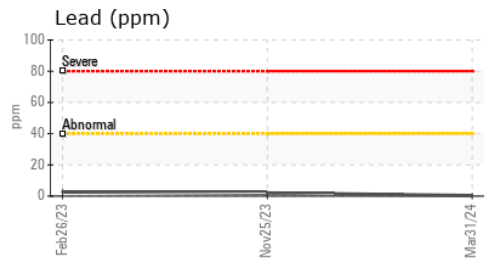
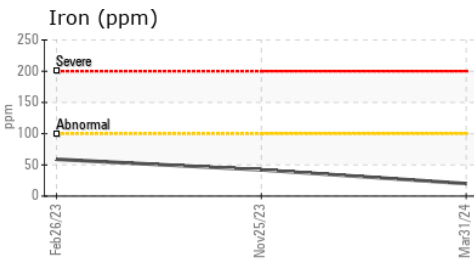
OIL ANALYSIS REPORT



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	11.3	11.1	10.4

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0110688 **Received** : 08 Apr 2024
Lab Number : 06140895 **Tested** : 08 Apr 2024
Unique Number : 10965703 **Diagnosed** : 10 Apr 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: TBN)

MILLER TRUCK LEASING #123
 66 KELLER AVENUE
 LANCASTER, PA
 US 17601
 Contact: RON ROBERTS
 roberts@millertransgroup.com
 T: (717)945-6205
 F: (717)945-5818

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)