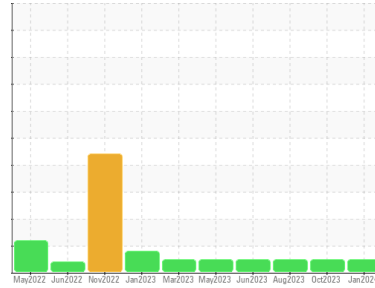


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

 Machine Id
SJB671

 Component
Diesel Engine

 Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)
DIAGNOSIS
Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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			PCA0113582	PCA0105782	PCA0100888
Sample Date	Client Info			10 Jan 2024	02 Oct 2023	01 Aug 2023
Machine Age	mls Client Info			156498	148009	0
Oil Age	mls Client Info			8489	4379	5797
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		23	15	16
Chromium	ppm ASTM D5185m	>20		0	<1	<1
Nickel	ppm ASTM D5185m	>4		0	0	0
Titanium	ppm ASTM D5185m			0	0	<1
Silver	ppm ASTM D5185m	>3		0	0	<1
Aluminum	ppm ASTM D5185m	>20		2	2	2
Lead	ppm ASTM D5185m	>40		0	<1	1
Copper	ppm ASTM D5185m	>330		4	1	2
Tin	ppm ASTM D5185m	>15		0	0	<1
Vanadium	ppm ASTM D5185m			0	0	<1
Cadmium	ppm ASTM D5185m			0	0	<1

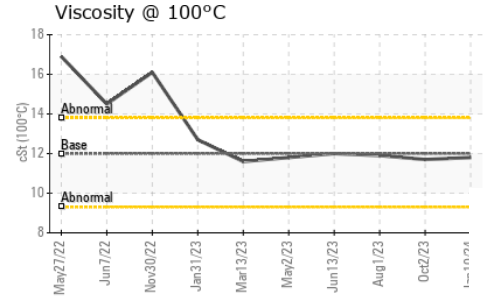
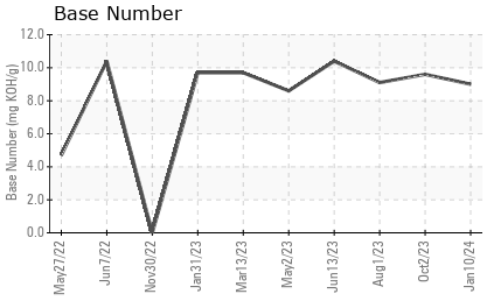
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2		6	5	8
Barium	ppm ASTM D5185m	0		0	0	1
Molybdenum	ppm ASTM D5185m	50		70	60	64
Manganese	ppm ASTM D5185m	0		0	0	1
Magnesium	ppm ASTM D5185m	950		1057	873	908
Calcium	ppm ASTM D5185m	1050		1401	1186	1253
Phosphorus	ppm ASTM D5185m	995		1209	1008	1048
Zinc	ppm ASTM D5185m	1180		1510	1238	1291
Sulfur	ppm ASTM D5185m	2600		4022	3276	3699

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25		3	4	4
Sodium	ppm ASTM D5185m			2	0	3
Potassium	ppm ASTM D5185m	>20		0	2	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3		1.8	1.1	1.1
Nitration	Abs/cm *ASTM D7624	>20		11.7	7.8	8.1
Sulfation	Abs/.1mm *ASTM D7415	>30		21.9	20.0	19.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		17.2	14.2	14.3
Base Number (BN)	mg KOH/g ASTM D2896			9.0	9.6	9.1

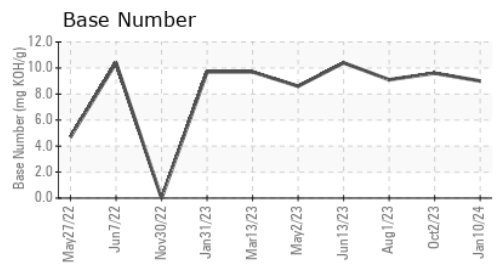
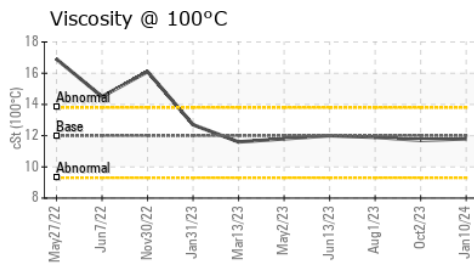
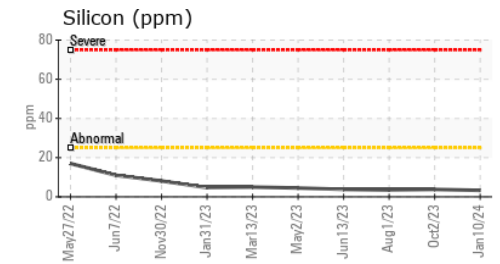
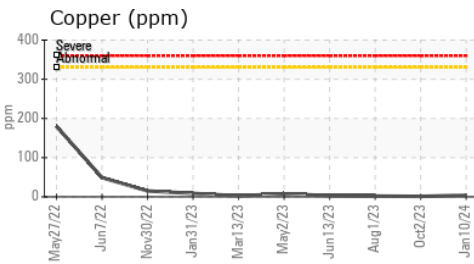
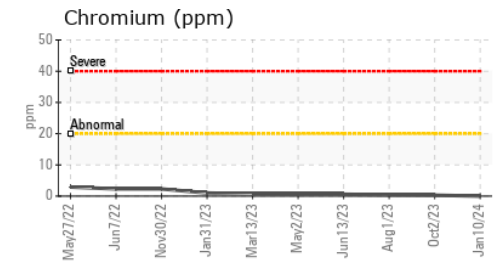
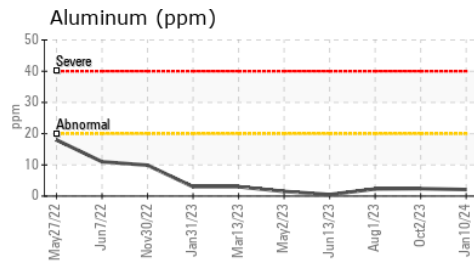
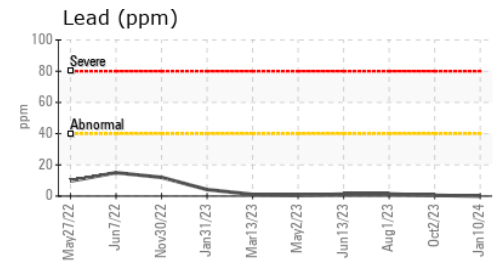
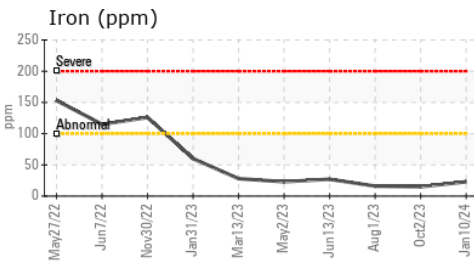
OIL ANALYSIS REPORT



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	11.8	11.7	11.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0113582 **Received** : 21 Mar 2024
Lab Number : 06124659 **Tested** : 22 Mar 2024
Unique Number : 10938810 **Diagnosed** : 22 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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 LOGAN TOWNSHIP, NJ
 US 08085
 Contact: ED DAVIS
 edavis@millertransgroup.com
 T: (856)214-3521
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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)