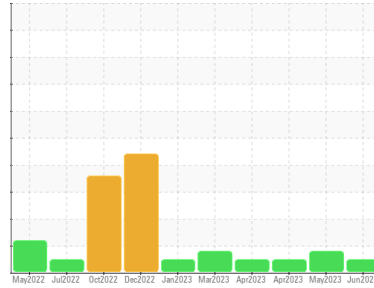


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

 Machine Id
SJB621

 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	history 1	history 2
Sample Number	Client Info			PCA0100952	PCA0097813	PCA0097748
Sample Date	Client Info			28 Jun 2023	31 May 2023	28 Apr 2023
Machine Age	mls	Client Info		158578	152207	0
Oil Age	mls	Client Info		6371	8513	6259
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history 1	history 2
Fuel	WC Method	>5		<1.0	<1.0	<1.0
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	22	26	21
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	2	2
Lead	ppm	ASTM D5185m	>40	<1	2	0
Copper	ppm	ASTM D5185m	>330	1	1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

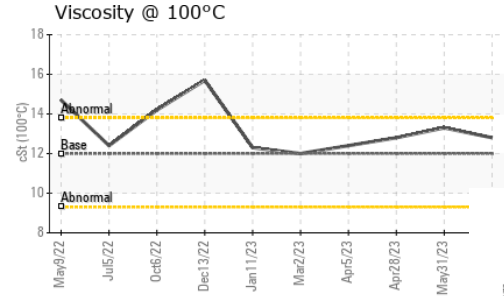
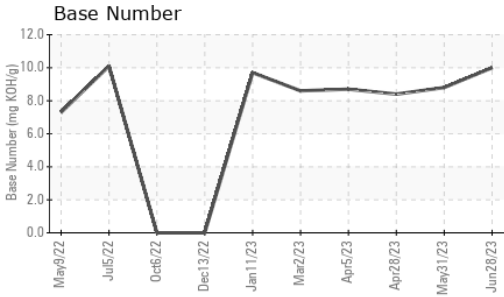
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	2	7	6	13
Barium	ppm	ASTM D5185m	0	11	2	0
Molybdenum	ppm	ASTM D5185m	50	66	63	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	933	850	912
Calcium	ppm	ASTM D5185m	1050	1251	1128	1132
Phosphorus	ppm	ASTM D5185m	995	1073	1017	1044
Zinc	ppm	ASTM D5185m	1180	1330	1186	1276
Sulfur	ppm	ASTM D5185m	2600	3805	3005	3667

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	3	3	4
Sodium	ppm	ASTM D5185m		2	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	1	1

INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	2.8	▲ 3.6	2.7
Nitration	Abs/cm	*ASTM D7624	>20	10.9	12.1	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	26.7	22.9

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	18.2	15.4
Base Number (BN)	mg KOH/g	ASTM D2896		10.0	8.8	8.4

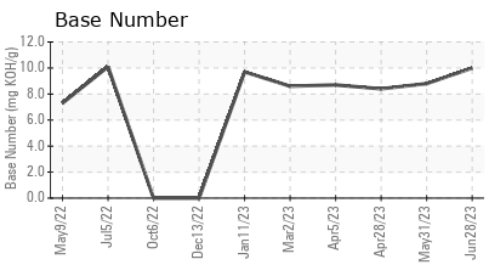
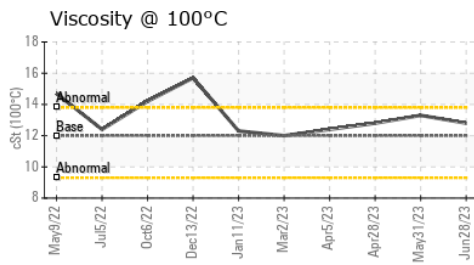
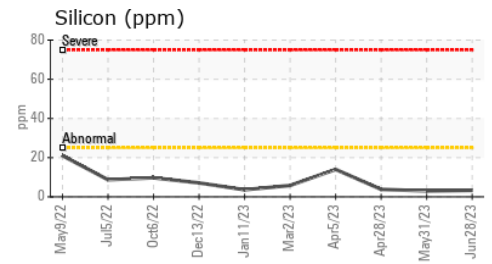
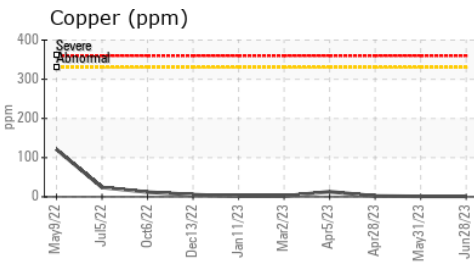
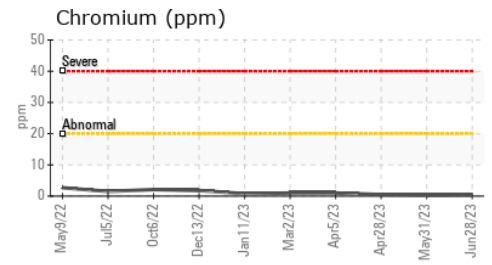
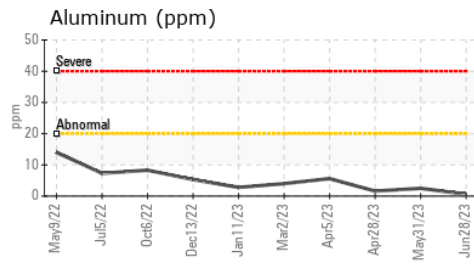
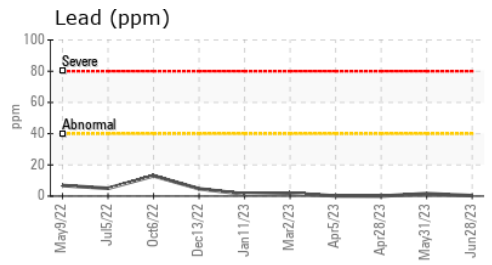
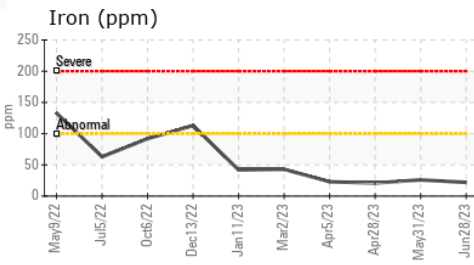
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
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	history 1	history 2	
Visc @ 100°C	cSt	ASTM D445	12.00	12.8	13.3	12.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100952 **Received** : 03 Jul 2023
Lab Number : 05888633 **Diagnosed** : 05 Jul 2023
Unique Number : 10539116 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

63 REPAUPO STATION ROAD
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 US 08085
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 edavis@millertransgroup.com
 T: (856)214-3521
 F: (856)214-3663

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)