



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

BARTO

Machine Id

6326 [BARTO]

Component

Diesel Engine

Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		SBP0007762	SBP0006654	SBP0005924
Sample Date		Client Info		09 Jul 2024	21 Feb 2024	10 Nov 2023
Machine Age	mls	Client Info		621093	597078	573659
Oil Age	mls	Client Info		24015	23419	24098
Filter Age	mls	Client Info		24015	23419	24098
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	70	19	41
Chromium	ppm	ASTM D5185m	>5	4	2	2
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	3	2	3
Lead	ppm	ASTM D5185m	>30	4	5	4
Copper	ppm	ASTM D5185m	>150	6	<1	3
Tin	ppm	ASTM D5185m	>5	8	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

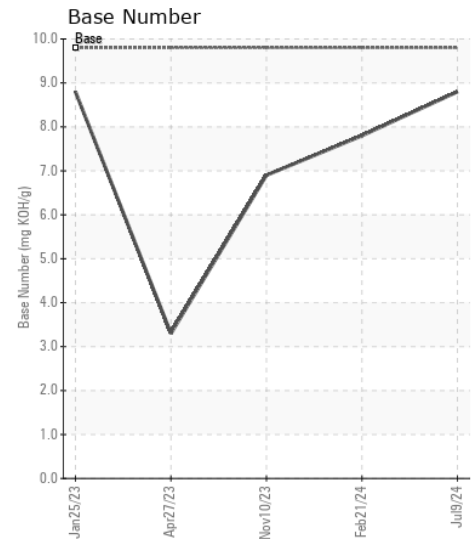
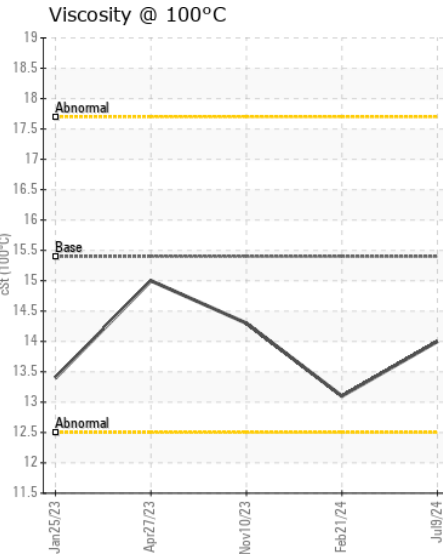
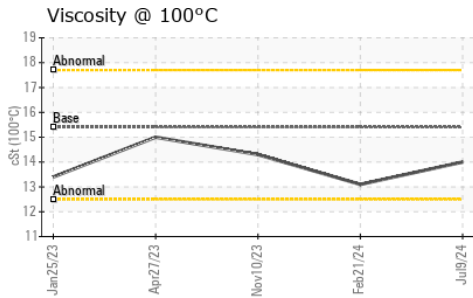
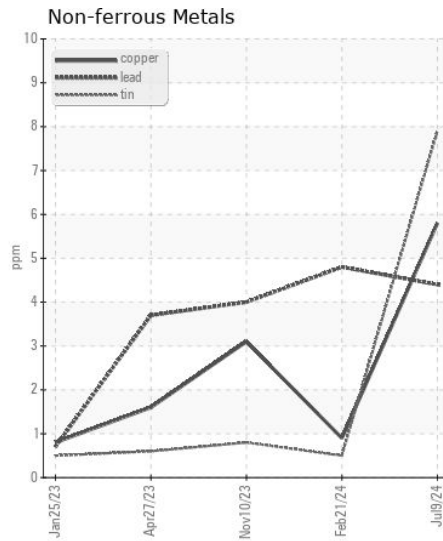
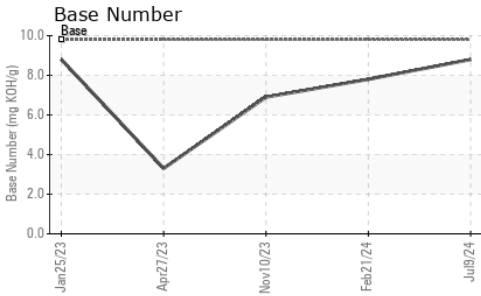
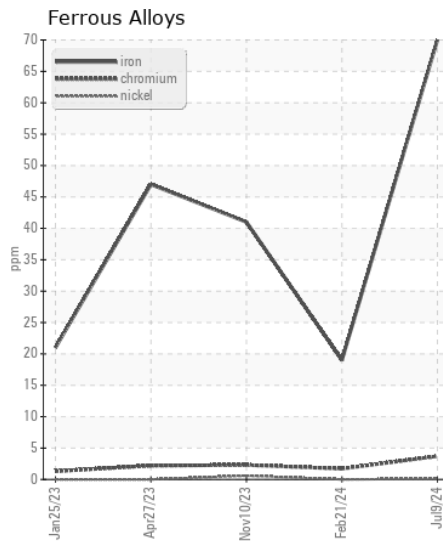
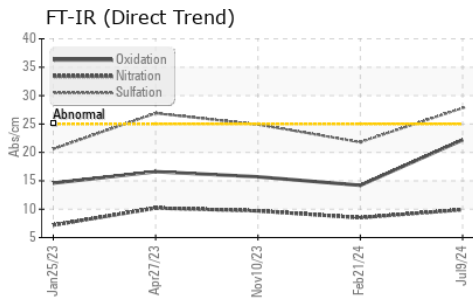
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	11	3	3
Potassium	ppm	ASTM D5185m	>20	7	2	5
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	2.5	2.3	▲ 3.6
Nitration	Abs/cm	*ASTM D7624	>20	9.9	8.5	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.8	21.8	24.9
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185m		7	7	<1
Boron	ppm	ASTM D5185m	0	16	0	1
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	40	62	58
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	1010	511	1019	916
Calcium	ppm	ASTM D5185m	1070	1708	1196	1054
Phosphorus	ppm	ASTM D5185m	1150	795	1112	878
Zinc	ppm	ASTM D5185m	1270	923	1324	1167
Sulfur	ppm	ASTM D5185m	2060	2784	3059	3050
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.2	14.2	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	7.8	6.9
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.1	14.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0007762
Lab Number : 06237285
Unique Number : 11126119
Test Package : FLEET

Received : 15 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 17 Jul 2024 - Don Baldrige

SCHMIDT TRANSPORTATION - BARTO
 108 E Bay Road
 Plattsmouth, NE
 US 68048
 Contact: Service Manager

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)

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F: