

# **OIL ANALYSIS REPORT**

**BARTO** 7074 [BARTO]

Diesel Engine

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

# Sample Rating Trend



# Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

# Contamination

There is no indication of any contamination in the

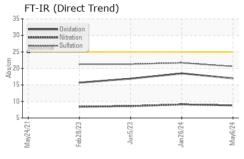
# **Fluid Condition**

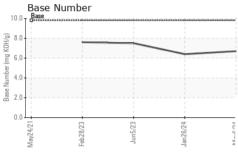
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

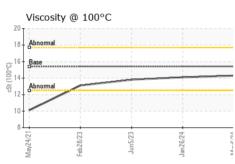
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		SBP0007218	SBP0005061	SBP0004407	
Sample Date		Client Info		06 May 2024	26 Jan 2024	05 Jun 2023	
Machine Age	mls	Client Info		324052	286870	245009	
Oil Age	mls	Client Info		37182	41861	37619	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	1	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	>80	22	19	16	
Chromium	ppm	ASTM D5185m	>5	2	2	1	
Nickel	ppm	ASTM D5185m	>2	<1	0	<1	
Titanium	ppm	ASTM D5185m		<1	<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>30	7	8	6	
Lead	ppm	ASTM D5185m	>30	<1	0	0	
Copper	ppm	ASTM D5185m	>150	10	12	16	
Tin	ppm	ASTM D5185m	>5	1	2	1	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0	2	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	64	62	59	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	964	1001	844	
Calcium	ppm	ASTM D5185m	1070	1105	1129	1241	
Phosphorus	ppm	ASTM D5185m	1150	986	1018	961	
Zinc	ppm	ASTM D5185m	1270	1264	1310	1238	
Sulfur	ppm	ASTM D5185m	2060	3003	2587	2825	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	5	4	4	
Sodium	ppm	ASTM D5185m		<1	3	<1	
Potassium	ppm	ASTM D5185m	>20	8	6	7	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.6	0.7	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.1	8.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	21.7	21.3	
FLUID DEGRADATION method limit/base current history1							
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	18.5	16.9	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	6.4	7.5	

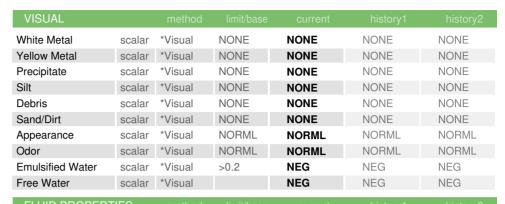


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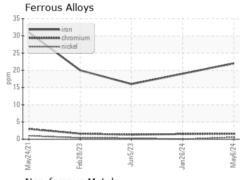


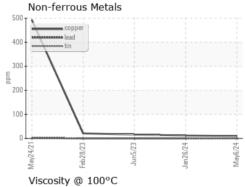


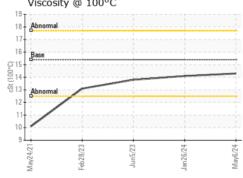


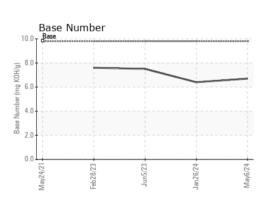
FLUID FROFERITES			method			HISTORY	HISTOLA	
	Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.1	13.8	

# **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0007218 Lab Number : 06178131 Unique Number : 11029457 Test Package : FLEET

Received : 13 May 2024 **Tested** : 14 May 2024 Diagnosed

: 14 May 2024 - Wes Davis

108 E Bay Road Plattsmouth, NE

**SCHMIDT TRANSPORTATION - BARTO** 

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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