

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **97028** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (5 GAL)**

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.

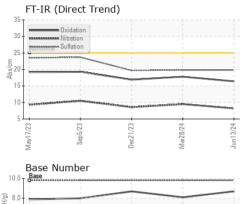
Fluid Condition

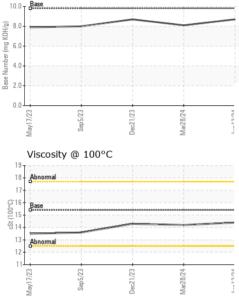
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006568	SBP0004325	SBP0004328
Sample Date		Client Info		13 Jun 2024	28 Mar 2024	21 Dec 2023
Machine Age	mls	Client Info		265877	9483	247848
Oil Age	mls	Client Info		8678	9483	9987
Oil Changed		Client Info		Changed	Oil Added	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	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	8	16	13
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	7	8
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m		<1	1	<1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m	210	0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	le le	method	limit/base	current	history1	history2
Boron	ppm		0	4	4	16
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	62	66
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium		ASTM D5185m	1010	983	985	938
Calcium	ppm ppm	ASTM D5185m	1070	1125	1252	1150
Phosphorus	ppm	ASTM D5185m	1150	1129	1053	913
Zinc	ppm	ASTM D5185m	1270	1321	1314	1222
Sulfur	ppm	ASTM D5185m	2060	3662	3508	3133
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm		>25	4	6	13
Sodium	ppm	ASTM D5185m	20	6	7	13
Potassium	ppm	ASTM D5185m	>20	9	11	17
INFRA-RED	ppm	method	limit/base	current	history1	history2
	0(
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.4
Nitration	Abs/cm	*ASTM D7624		8.2	9.5	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.8	19.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	17.8	16.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	8.1	8.7

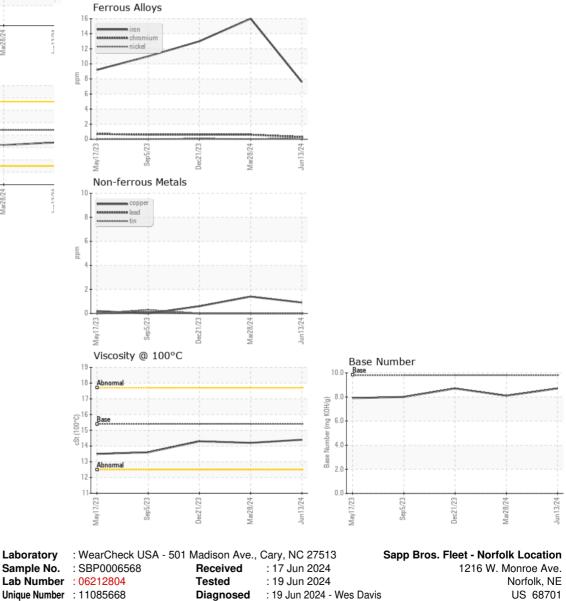


OIL ANALYSIS REPORT





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.2	14.3
GRAPHS						





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)

Test Package : FLEET

1216 W. Monroe Ave. Norfolk, NE US 68701 Contact: Ty Zelmer tzellmer@sappbros.net T: (402)371-7372 06:2012) F:

Certificate 12367