

OIL ANALYSIS REPORT

Sample Rating Trend





Area (56911Z) 913094 Component

PETRO CANADA DURON SHP 15W40 (42 GAL)

		Feb2023	Aug2023	Sep2023 Jan2024	Mar2024	
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095936	GFL0095956	GFL009597
Sample Date		Client Info		13 Mar 2024	30 Jan 2024	20 Sep 202
Machine Age	hrs	Client Info		2673	2402	1780
Oil Age	hrs	Client Info		271	622	61
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	10	19	9
Chromium	ppm	ASTM D5185m	>20	<1	1	0
Nickel	ppm	ASTM D5185m	>5	4	🔺 11	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	<1	3	16
Tin	ppm	ASTM D5185m	>15	<1	2	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	4	9
Barium	ppm	ASTM D5185m	0	0	0	12
Molybdenum	ppm	ASTM D5185m	60	63	60	59
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	979	939	891
Calcium	ppm	ASTM D5185m	1070	1127	1062	1114
Phosphorus	ppm	ASTM D5185m	1150	1064	996	977
Zinc	ppm	ASTM D5185m	1270	1296	1202	1167
Sulfur	ppm	ASTM D5185m	2060	3344	2691	3230
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	6
Sodium	ppm	ASTM D5185m		2	5	8
Potassium	ppm	ASTM D5185m	>20	3	4	20
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.8	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.6	11.1	7.3
0.11.11	Abs/.1mm	*ASTM D7415	>30	20.6	23.4	20.6
Sulfation	AUS/.IIIIII			2010		
FLUID DEGRA			limit/base		history1	history2
						history2 16.7

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

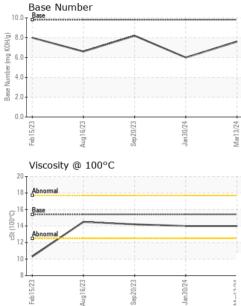
There is no indication of any contamination in the oil.

Fluid Condition

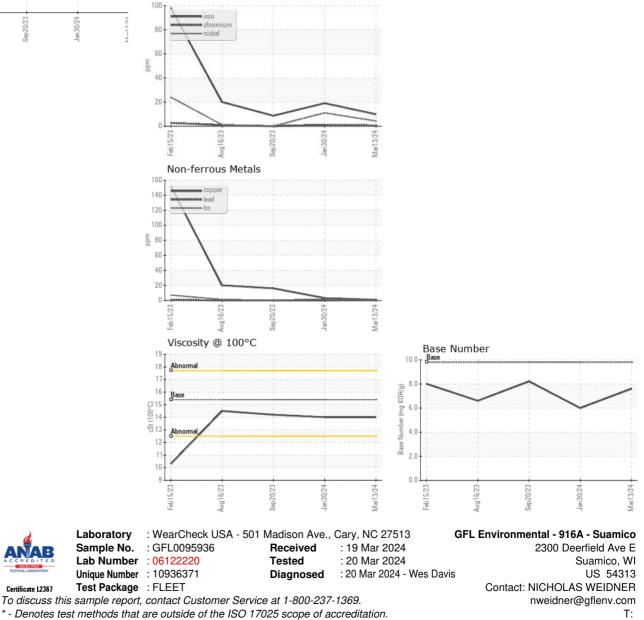
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

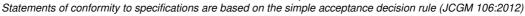


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.0	14.2
GRAPHS						
Ferrous Alloys						





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