

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL NORMAL



Machine Id 913080 Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (36 QTS)

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

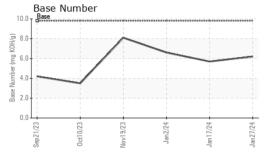
Fluid Condition

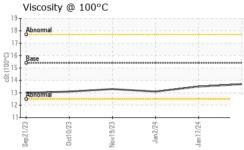
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Sep2023	Uct2U23 Nov2U23	Jan2024 Jan2024	Jan2024	
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110043	GFL0109980	GFL0104260
Sample Date		Client Info		27 Jan 2024	17 Jan 2024	02 Jan 2024
Machine Age	hrs	Client Info		3421	3280	3132
Oil Age	hrs	Client Info		600	600	3132
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINA	ATION	method	limit/base	current	history1	history2
Fuel	THOIT	WC Method	>3.0	<1.0	<1.0	<1.0
				<1.0 NEG		
Water			>0.2		NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	ALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	22	22	47
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	4	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	9
Aluminum	ppm	ASTM D5185m	>20	8	2	<1
Lead	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m	>330	<1	17	40
Tin	ppm	ASTM D5185m	>15	<1	<1	5
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	2
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m	60	48	56	0
Manganese	ppm	ASTM D5185m		<1	<1	3
Magnesium	ppm	ASTM D5185m	1010	809	890	79
Calcium	ppm	ASTM D5185m	1070	885	1086	3001
		ASTM D5185m	1150	919	801	1061
Phosphorus Zinc	ppm	ASTM D5185m	1270		1098	1288
Sulfur	ppm	ASTM D5185m	2060	1099	2205	3707
	ppm			2513		
CONTAMINA	_	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	8	11
Sodium	ppm	ASTM D5185m		5	4	6
Potassium	ppm	ASTM D5185m	>20	3	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.9	0.8	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.1	3.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	21.1	17.5
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	17.7	13.0
Base Number (BI	N) mg KOH/g	ASTM D2896	9.8	6.2	5.7	6.6
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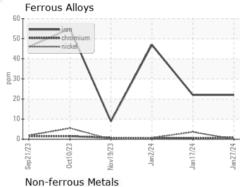


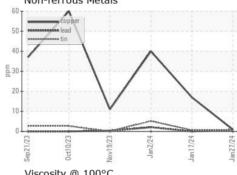


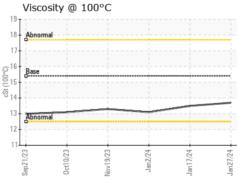
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ HEAVY
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ HEAVY
Sand/Dirt	scalar	*Visual	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

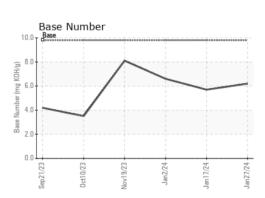
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.5	13.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0110043 : 06076524 : 10858615

Recieved : 01 Feb 2024 Diagnosed : 01 Feb 2024 Diagnostician : Wes Davis

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184 Contact: Belal Dgheish

bdgheish@gflenv.com T: (734)714-2340

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)