

OIL ANALYSIS REPORT

Sample Rating Trend









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

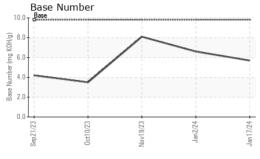
Fluid Condition

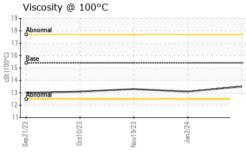
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (3	6 QTS)	Sep 2023	0et2023	Nov2023 Jan2024	Jan2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109980	GFL0104260	GFL0059228
Sample Date		Client Info		17 Jan 2024	02 Jan 2024	19 Nov 2023
Machine Age	hrs	Client Info		3280	3132	2798
Oil Age	hrs	Client Info		600	3132	2798
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	<1.0
Nater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	22	47	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	4	<1	0
Γitanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	9	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	5
_ead	ppm	ASTM D5185m	>40	0	2	<1
Copper	ppm	ASTM D5185m	>330	17	40	11
Γin	ppm	ASTM D5185m	>15	<1	5	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	3
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	60	56	0	57
Manganese	ppm	ASTM D5185m	0	<1	3	<1
Magnesium	ppm	ASTM D5185m	1010	890	79	948
Calcium	ppm	ASTM D5185m	1070	1086	3001	1070
Phosphorus	ppm	ASTM D5185m	1150	801	1061	1005
Zinc	ppm	ASTM D5185m	1270	1098	1288	1237
Sulfur	ppm	ASTM D5185m	2060	2205	3707	2991
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	11	7
Sodium	ppm	ASTM D5185m		4	6	4
Potassium	ppm	ASTM D5185m	>20	0	3	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.8	0.1	0.2
Vitration	Abs/cm	*ASTM D7624	>20	9.1	3.9	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	17.5	18.7
FLUID DEGRAI	ΛΑΤΙΩΝ	method	limit/base	current	history1	history2
FLUID DEGNAL		mounoa		Current		,
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	13.0	14.2



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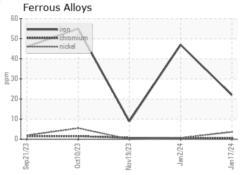


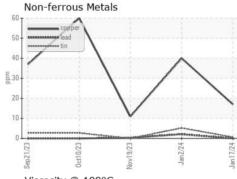


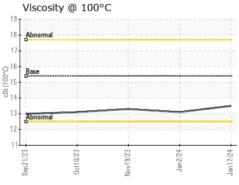
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	▲ HEAVY	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ HEAVY	NONE
Sand/Dirt	scalar	*Visual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

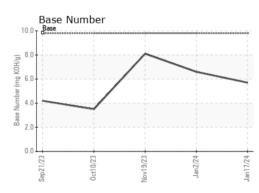
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.1	13.3

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10846000

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109980 : 06069323

Recieved : 24 Jan 2024 Diagnosed Diagnostician : Wes Davis

: 24 Jan 2024

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)