

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
4507M
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- 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

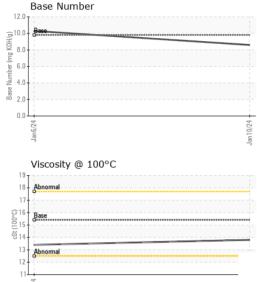
Fluid Condition

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

CAMPLE INCOR			Jan2024	Jan 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110004	GFL0104181	
Sample Date		Client Info		10 Jan 2024	06 Jan 2024	
/lachine Age	hrs	Client Info		15373	1786	
Oil Age	hrs	Client Info		15373	1786	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	
Vater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>90	5	55	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	
Γitanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	1	7	
_ead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	<1	<1	
Γin	ppm	ASTM D5185m	>15	0	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	0	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	57	58	
Manganese	ppm	ASTM D5185m	0	<1	0	
Magnesium	ppm	ASTM D5185m	1010	974	988	
Calcium	ppm	ASTM D5185m	1070	968	1047	
Phosphorus	ppm	ASTM D5185m	1150	1062	1007	
Zinc	ppm	ASTM D5185m	1270	1255	1333	
Sulfur	ppm	ASTM D5185m	2060	3137	3098	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	8	
Sodium	ppm	ASTM D5185m		3	7	
Potassium	ppm	ASTM D5185m	>20	1	6	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	5.7	7.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	20.2	
	DATION	method	limit/base	ourropt	history1	history2
FLUID DEGRA	DATION	method	IIIIIIIIIIIIII	current	HISTOLAL	HISTOLYZ
FLUID DEGRA	Abs/.1mm	*ASTM D7414	>25	14.2	15.9	



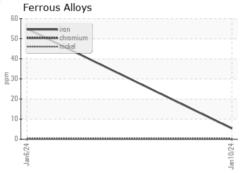
OIL ANALYSIS REPORT

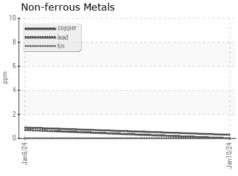


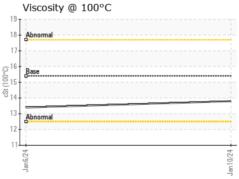
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

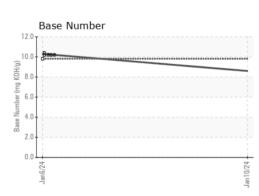
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.4	

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10836190

: GFL0110004 : 06064808 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024

Diagnosed : 19 Jan 2024 Diagnostician : Wes Davis

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)

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184

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