

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
4623M
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

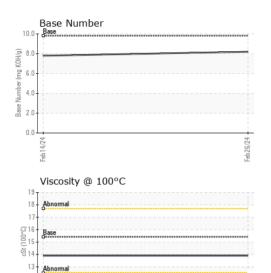
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (-	GAL)		Feb2024	Feb2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114395	GFL0110117	
Sample Date		Client Info		26 Feb 2024	14 Feb 2024	
Machine Age	hrs	Client Info		21163	21084	
Oil Age	hrs	Client Info		21163	21084	
Oil Changed	0	Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
- uel		WC Method	>3.0	<1.0	<1.0	
Nater		WC Method		NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>75	15	19	
Chromium	ppm	ASTM D5185m	>5	<1	2	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>15	2	3	
_ead	ppm	ASTM D5185m	>25	<1	<1	
Copper	ppm	ASTM D5185m	>100	0	5	
Γin	ppm	ASTM D5185m	>4	<1	<1	
√anadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	3	
Barium	ppm	ASTM D5185m	0	0	34	
Molybdenum	ppm	ASTM D5185m	60	64	49	
Manganese	ppm	ASTM D5185m	0	<1	1	
Magnesium	ppm	ASTM D5185m	1010	1165	746	
Calcium	ppm	ASTM D5185m	1070	1266	846	
Phosphorus	ppm	ASTM D5185m	1150	1171	858	
Zinc	ppm	ASTM D5185m	1270	1568	1016	
Sulfur	ppm	ASTM D5185m	2060	3611	2694	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	11	
Sodium	ppm	ASTM D5185m		38	28	
Potassium	ppm	ASTM D5185m	>20	1	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	19.8	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	17.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	7.8	



Feb14/24

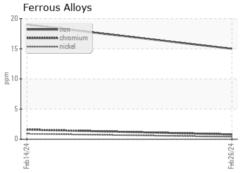
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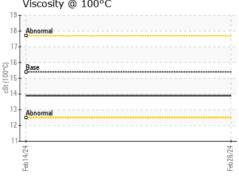
NONE	NONE	NONE	
NONE			
NONE	NONE	NONE	
NORML	NORML	NORML	
NORML	NORML	NORML	
>0.2	NEG	NEG	
	NEG	NEG	
	NONE NONE NONE NORML	NONE NONE NONE NONE NONE NONE NONE NONE NORML NORML NORML NORML >0.2 NEG	NONE NONE NONE NONE NONE NONE NONE NONE

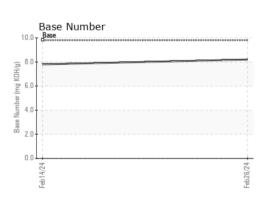
LEGID PROP	ERITES	method			riistory i	History2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.9	

GRAPHS



Non-ferrous N	4etals	
8 - copper lead		
6 d d d d d d d d d d d d d d d d d d d		
42/41	3 1 7 Company 2004 Company	 Feb26/24
Viscosity @ 1	00°C	







Laboratory Sample No. Lab Number : 06104125

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0114395

Unique Number : 10902355

Received **Tested** Diagnosed

: 29 Feb 2024 : 29 Feb 2024

: 29 Feb 2024 - 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

Test Package : FLEET 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)