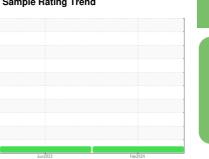


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 1108M Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

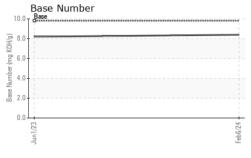
Fluid Condition

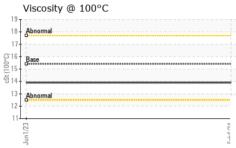
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (- GAL)		Jun 2023	Feb2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110136	GFL0069847	
Sample Date		Client Info		06 Feb 2024	01 Jun 2023	
Machine Age	hrs	Client Info		12837	12753	
Oil Age	hrs	Client Info		84	600	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>200	7	7	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>30	2	1	
_ead	ppm	ASTM D5185m	>30	<1	0	
Copper	ppm	ASTM D5185m	>30	2	1	
Γin	ppm	ASTM D5185m	>15	<1	0	
/anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	
Barium	ppm	ASTM D5185m	0	13	0	
Molybdenum	ppm	ASTM D5185m	60	59	58	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	882	938	
Calcium	ppm	ASTM D5185m	1070	1058	1106	
Phosphorus	ppm	ASTM D5185m	1150	1018	997	
Zinc	ppm	ASTM D5185m	1270	1171	1263	
Sulfur	ppm	ASTM D5185m	2060	3328	3624	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	4	
Sodium	ppm	ASTM D5185m		0	10	
Potassium	ppm	ASTM D5185m	>20	2	3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.6	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	16.0	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.2	



OIL ANALYSIS REPORT

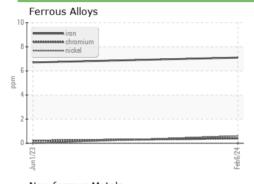


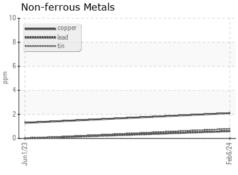


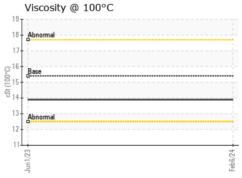
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

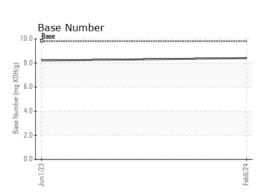
FLUID PROP	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.9	

GRAPHS













Laboratory Sample No.

: GFL0110136 Lab Number : 06085756 Unique Number : 10873201

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Tested Diagnosed

: 12 Feb 2024 : 12 Feb 2024

: 12 Feb 2024 - Wes Davis

GFL Environmental - 468 - Dearborn

3051 Schaefer Rd Dearborn, MI US 48126 Contact:

Test Package : FLEET Certificate L2367 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)

T:

F: