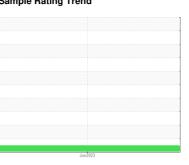


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **414045** Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 0

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

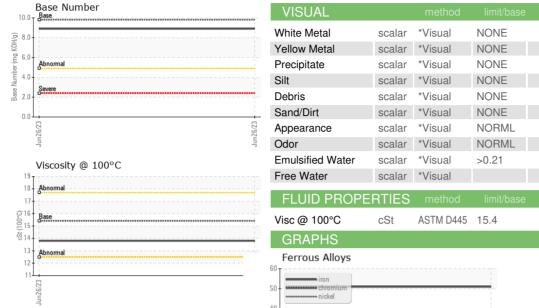
Fluid Condition

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

AL)				Jun 2023				
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2		
Sample Number		Client Info		GFL0058538				
Sample Date		Client Info		26 Jun 2023				
Machine Age	hrs	Client Info		0				
Oil Age	hrs	Client Info		0				
Oil Changed		Client Info		Not Changd				
Sample Status				NORMAL				
CONTAMINATI	ON	method	limit/base	current	history 1	history 2		
-uel		WC Method	>2.1	<1.0				
Glycol		WC Method		NEG				
WEAR METALS	S	method	limit/base	current	history 1	history 2		
ron	ppm	ASTM D5185m	>51	51				
Chromium	ppm	ASTM D5185m	>11	4				
Nickel	ppm	ASTM D5185m	>5	3				
Γitanium	ppm	ASTM D5185m		<1				
Silver	ppm	ASTM D5185m	>3	0				
Aluminum	ppm	ASTM D5185m	>31	2				
_ead	ppm	ASTM D5185m	>26	<1				
Copper	ppm	ASTM D5185m	>26	<1				
in	ppm	ASTM D5185m	>4	0				
/anadium	ppm	ASTM D5185m		0				
Cadmium	ppm	ASTM D5185m		0				
ADDITIVES		method	limit/base	current	history 1	history 2		
Boron	ppm	ASTM D5185m	0	<1				
Barium	ppm	ASTM D5185m	0	0				
Molybdenum	ppm	ASTM D5185m	60	60				
Manganese	ppm	ASTM D5185m	0	<1				
Magnesium	ppm	ASTM D5185m	1010	927				
Calcium	ppm	ASTM D5185m	1070	1072				
Phosphorus	ppm	ASTM D5185m	1150	994				
Zinc	ppm	ASTM D5185m	1270	1214				
Sulfur	ppm	ASTM D5185m	2060	3100				
CONTAMINAN	TS	method	limit/base	current	history 1	history 2		
Silicon	ppm	ASTM D5185m	>22	5				
Sodium	ppm	ASTM D5185m	>31	2				
Potassium	ppm	ASTM D5185m	>20	1				
INFRA-RED		method	limit/base	current	history 1	history 2		
Soot %	%	*ASTM D7844	>3	0.6				
Nitration	Abs/cm	*ASTM D7624	>20	9.1				
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1				
FLUID DEGRAD	ATION	method	limit/base	current	history 1	history 2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5				
J			- =0					



OIL ANALYSIS REPORT



	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
Jun26/23	Appearance	scalar	*Visual	NORML	NORML		
Ä	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPEI	RTIES	method	limit/base	current	history 1	history 2
	Visc @ 100°C	cSt	ASTM D445	15.4	13.8		
	GRAPHS						
	Ferrous Alloys						
	iron						
	50 - *********** chromium						
	40						
mdd	30 -						
	20						
	10-						
	733 L			- 123			
	Jun26/23			Jun26/23			
	Non-ferrous Metals	6					
	10 copper						
	8 - sessessesses lead						
mdd	6						
_	4						
	2						
	0 5						
	Jun26/23			Jun26/23			
	→ Viscosity @ 100°C			ゔ			
	19 _T :			10.0 т	Base Number		
	18 - Abnormal			10.07	0		
	17			€ 8.0			
0	16 - Base						
cSt (100°C)	15			ber (m	Abnormal		
8	14-			Base Number (mg KOH/g)			
	13 Abnormal			B ase	Severe		





Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10537794

: GFL0058538 : 05887311 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Jun 2023 Diagnosed : 03 Jul 2023

Diagnostician : Jonathan Hester

0.0

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 - 084 - Clarksville

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US 37042