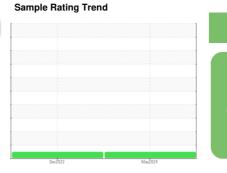


OIL ANALYSIS REPORT

Area [66994] 5458

Diesel Engine

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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Changed fluid and filters)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

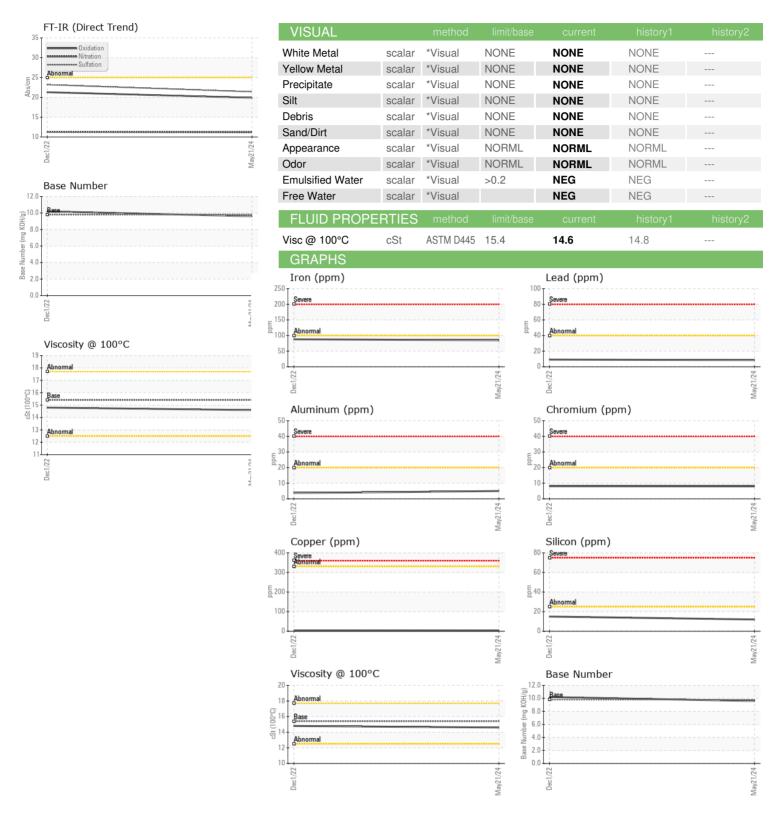
Fluid Condition

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

GAL)			Dec2022	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0108727	PCA0062060	
Sample Date		Client Info		21 May 2024	01 Dec 2022	
Machine Age	hrs	Client Info		19885	19604	
Oil Age	hrs	Client Info		19885	19604	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method		NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	85	88	
Chromium	ppm	ASTM D5185m	>20	8	8	
Nickel	ppm	ASTM D5185m	>4	2	<1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>20	5	4	
Lead	ppm	ASTM D5185m	>40	9	9	
Copper	ppm	ASTM D5185m	>330	2	2	
Tin	ppm	ASTM D5185m	>15	- <1	<1	
Vanadium	ppm	ASTM D5185m	0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	7	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	72	65	
Manganese	ppm	ASTM D5185m	0	1	1	
Magnesium	ppm	ASTM D5185m	1010	1244	1008	
Calcium	ppm	ASTM D5185m	1070	1458	1210	
Phosphorus	ppm	ASTM D5185m	1150	1355	1121	
Zinc	ppm	ASTM D5185m	1270	1682	1342	
Sulfur	ppm	ASTM D5185m	2060	4412	3879	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	15	
Sodium	ppm	ASTM D5185m		2	2	
Potassium	ppm	ASTM D5185m	>20	1	1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	11.2	11.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	23.2	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	21.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.6	10.2	
	,					



OIL ANALYSIS REPORT





Laboratory Sample No.

Lab Number : 06193214 Unique Number : 11049966

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0108727

Received **Tested**

: 28 May 2024 : 30 May 2024 Diagnosed

: 30 May 2024 - Sean Felton

Kemp Quarries - Kemp Stone - Neosho 19148 Ingersol Lane Neosho, MO

US 64850 Contact:

neosho@kempstone.com

Test Package : MOB 1 (Additional Tests: TBN) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

Report Id: KEMNEO [WUSCAR] 06193214 (Generated: 05/30/2024 20:45:59) Rev: 1

Submitted By:

T:

F: