

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **2327131**

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

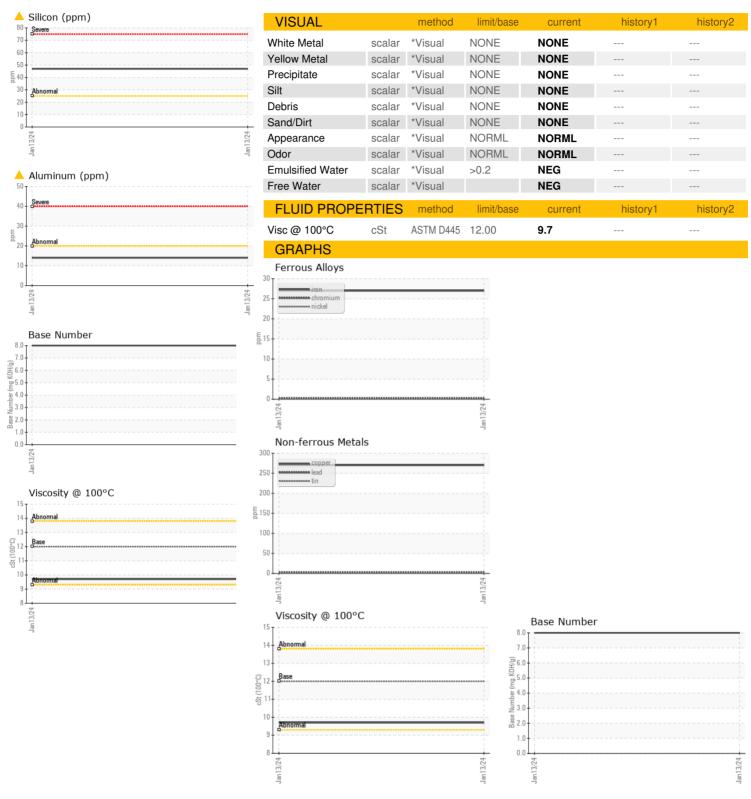
Fluid Condition

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

TS)				Jan2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA06060008		
Sample Date		Client Info		13 Jan 2024		
Machine Age	mls	Client Info		0		
Oil Age	mls	Client Info		20000		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method	20.2	NEG		
	_			INEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	27		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	<1		
Γitanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	14		
_ead	ppm	ASTM D5185m	>40	2		
Copper	ppm	ASTM D5185m	>330	270		
Γin	ppm	ASTM D5185m	>15	4		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	246		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	120		
Manganese	ppm	ASTM D5185m	0	3		
Magnesium	ppm	ASTM D5185m	950	654		
Calcium	ppm	ASTM D5185m	1050	1564		
Phosphorus	ppm	ASTM D5185m	995	712		
Zinc	ppm	ASTM D5185m	1180	842		
Sulfur	ppm	ASTM D5185m	2600	2359		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	47		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	44		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	9.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7		
Base Number (BN)	mg KOH/g		,	8.0		
Dago Harribor (DIN)	ing Norly	7.0 TWI D2000		0.0		



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Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA06060008 : 06060008

: 10831390

Recieved Diagnosed Diagnostician

: 12 Jan 2024 : 16 Jan 2024 : Don Baldridge

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)

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