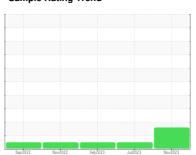


OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id **2126977**

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light concentration of water present 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.

QTS)		Sep 2022	Nov2022	Feb2023 Jul2023	Nov2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113260	PCA0102147	PCA0088255
Sample Date		Client Info		26 Nov 2023	22 Jul 2023	17 Feb 2023
Machine Age	mls	Client Info		142597	122121	0
Oil Age	mls	Client Info		21980	45491	40000
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				MARGINAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	32	38	21
Chromium	ppm	ASTM D5185m	>20	<1	1	0
Nickel	ppm	ASTM D5185m	>4	2	1	1
Titanium	ppm	ASTM D5185m		1	2	8
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	5	7	11
Lead	ppm	ASTM D5185m	>40	<1	2	2
Copper	ppm	ASTM D5185m	>330	12	21	69
Tin	ppm	ASTM D5185m	>15	1	2	1
Vanadium	ppm	ASTM D5185m	7.0	<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	0	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	59	62	52
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	950	910	893	849
Calcium	ppm	ASTM D5185m	1050	1036	1168	1252
Phosphorus	ppm	ASTM D5185m	995	980	897	930
Zinc	ppm	ASTM D5185m	1180	1200	1198	1242
Sulfur	ppm	ASTM D5185m	2600	3925	2818	3193
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	6	5
Sodium	ppm	ASTM D5185m		0	<1	2
Potassium	ppm	ASTM D5185m	>20	15	23	29
Water	%	ASTM D6304	>0.2	<u>0.145</u>		
ppm Water	ppm	ASTM D6304	>2000	1450		
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.7	10.2	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	21.8	20.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	16.5	15.0
Base Number (BN)	mg KOH/g	ASTM D2896		6.9	6.1	7.3
2000 (DIV)	mg nong			0.0	0.1	7.0



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