

OIL ANALYSIS REPORT





Machine Id 298266

Component Diesel Engine Fluid

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.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0099702	PCA0091384	PCA0077021
Sample Date		Client Info		14 Nov 2023	01 Apr 2023	18 Aug 2022
Machine Age	mls	Client Info		287988	263175	228233
Oil Age	mls	Client Info		20000	20000	15000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	historv1	historv2
Iren		ACTM DE10Em	. 100	10	67	25
Chromium	ppm	ASTM DE105m	>100	18	07	25
Nickol	ppm	AGTIM D5105III	>20	2	2	< 1
Titanium	ppm	ASTM D5185m	>4	2 ~1	<1	0
Silver	ppm	ASTM D5185m	<u>_3</u>	0	0	0
Aluminum	ppm	ASTM D5185m	>20	0 A 8	10	4
Lead	ppm	ASTM D5185m	>40	6	34	4
Conner	nom	ASTM D5185m	>330	22	5	2
Tin	ppm	ASTM D5185m	>15	2	4	2
Antimony	ppm	ASTM D5185m	210			
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	mag	ASTM D5185m		<1	0	0
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ADDITIVES		method	limit/base	current	nistory i	nistory2
Boron	ppm	ASTM D5185m	2	336	9	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	113	117	76
Manganese	ppm	ASTM D5185m	0	1	2	<1
Magnesium	ppm	ASTM D5185m	950	622	1462	837
Calcium	ppm	ASTM D5185m	1050	1532	2195	1279
Phosphorus	ppm	ASTM D5185m	995	800	1693	1017
Zinc	ppm	ASTM D5185m	1180	923	2158	1222
Sultur	ppm	ASTM D5185m	2600	3003	4813	3416
CONTAMINAN	IS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u> </u>	12	5
Sodium	ppm	ASTM D5185m		1	15	6
Potassium	ppm	ASTM D5185m	>20	4	6	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.6	2.6	1.9
Nitration	Abs/cm	*ASTM D7624	>20	12.4	16.8	15.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	31.8	26.7
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	31.0	23.7
Base Number (BN)	mg KOH/g	ASTM D2896		6.8	6.7	8.9

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