

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 2227122

Component Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

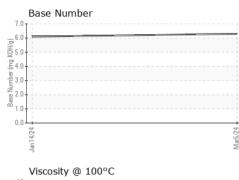
Fluid Condition

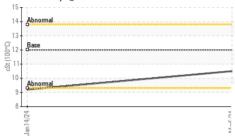
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS)			Jan 2024	Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0118428	PCA0099527	
Sample Date		Client Info		05 Mar 2024	14 Jan 2024	
Machine Age	mls	Client Info		42719	19622	
Oil Age	mls	Client Info		20000	19622	
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	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	20	30	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	1	1	
Titanium	ppm	ASTM D5185m		15	<1	
Silver	ppm	ASTM D5185m	>3	2	21	
Aluminum	ppm	ASTM D5185m	>20	12	26	
Lead	ppm	ASTM D5185m	>40	<1	2	
Copper	ppm	ASTM D5185m	>330	190	44	
Tin	ppm	ASTM D5185m	>15	2	4	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	21	242	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	56	110	
Manganese	ppm	ASTM D5185m	0	1	4	
Magnesium	ppm	ASTM D5185m	950	775	600	
Calcium	ppm	ASTM D5185m	1050	1237	1350	
Phosphorus	ppm	ASTM D5185m	995	964	698	
Zinc	ppm	ASTM D5185m	1180	1143	797	
Sulfur	ppm	ASTM D5185m	2600	3051	2286	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm		>25	13	53	
Sodium	ppm	ASTM D5185m		3	5	
Potassium	ppm	ASTM D5185m	>20	27	63	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	9.5	8.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	23.0	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	20.7	
Base Number (BN)	mg KOH/g	ASTM D2896		6.3	6.1	



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