

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 2026872

Component Diesel Engine Fluid

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

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

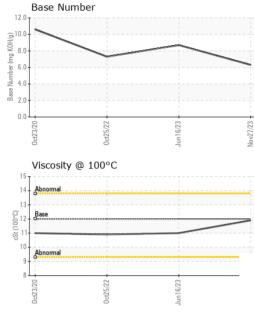
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

iAL)		0ct202	0 0ct2022	Jun ² 023 No	vv2023		
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0108084	PCA0099741	PCA0082603	
Sample Date		Client Info		27 Nov 2023	16 Jun 2023	25 Oct 2022	
Machine Age	mls	Client Info		191178	191178	20000	
Dil Age	mls	Client Info		191178	39000	20000	
Dil Changed		Client Info		N/A	Changed	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINA	ΓΙΟΝ	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 METAI	_S	method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185m	>100	24	10	27	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	2	2	6	
Fitanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	<1	
Aluminum	ppm	ASTM D5185m	>20	4	2	6	
ead	ppm	ASTM D5185m	>40	0	<1	2	
Copper	ppm	ASTM D5185m	>330	10	6	47	
īin	ppm	ASTM D5185m	>15	<1	<1	2	
Antimony	ppm	ASTM D5185m					
/anadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	<1	4	2	
Barium	ppm	ASTM D5185m	0	0	2	2	
Nolybdenum	ppm	ASTM D5185m	50	60	61	58	
<i>l</i> anganese	ppm	ASTM D5185m	0	1	<1	<1	
<i>A</i> agnesium	ppm	ASTM D5185m	950	942	864	879	
Calcium	ppm	ASTM D5185m	1050	1063	1099	1206	
Phosphorus	ppm	ASTM D5185m	995	1005	1021	872	
Zinc	ppm	ASTM D5185m	1180	1280	1200	1172	
Sulfur	ppm	ASTM D5185m	2600	3013	3080	2930	
CONTAMINAN	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	3	4	
Sodium	ppm	ASTM D5185m		3	0	<1	
Potassium	ppm	ASTM D5185m	>20	3	4	11	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	10.0	8.2	10.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	18.5	22.3	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
Dxidation	Abs/.1mm	*ASTM D7414	>25	16.8	14.0	17.7	
Base Number (BN)	mg KOH/g	ASTM D2896		6.3	8.7	7.3	
06:46) Rev: 1					Submitted By: KEVIN HOOKS		

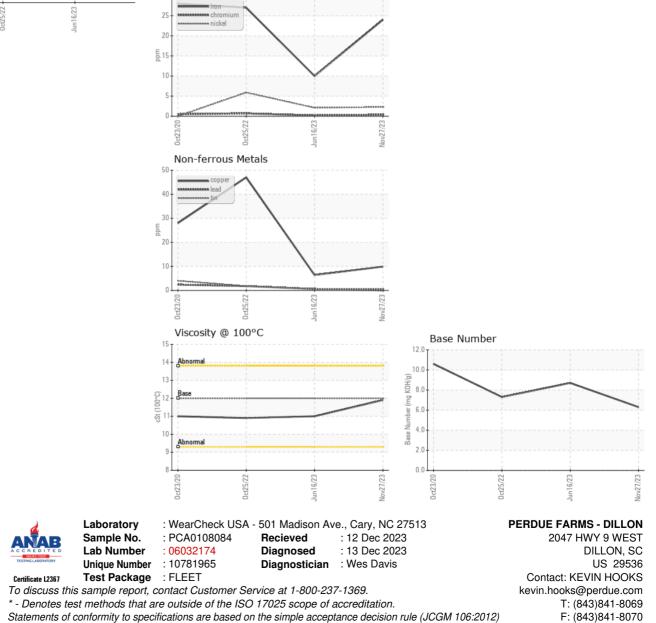
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.9	11.0	10.9
GRAPHS						
Ferrous Alloys						
iron						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)