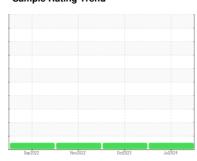


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
5017 []
Component
Auxiliary Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

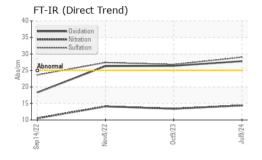
Fluid Condition

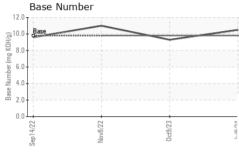
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

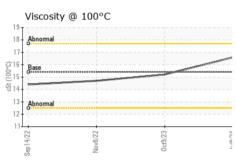
AL)		Sep202	2 Nov2022	Oct2023 Ju	12024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0003880	SBP0000844	SBP0000108
Sample Date		Client Info		09 Jul 2024	09 Oct 2023	08 Nov 2022
Machine Age	hrs	Client Info		3574	2303	775
Oil Age	hrs	Client Info		500	300	275
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	Ν	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	84	46	36
Chromium	ppm	ASTM D5185m	>20	3	5	5
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	10	6	4
_ead	ppm	ASTM D5185m	>40	6	2	2
Copper	ppm	ASTM D5185m	>330	9	7	33
Tin	ppm	ASTM D5185m	>15	2	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	7	36
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	92	84	66
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1562	1379	1277
Calcium	ppm	ASTM D5185m	1070	1783	1579	1779
Phosphorus	ppm	ASTM D5185m	1150	1612	1409	1254
Zinc	ppm	ASTM D5185m	1270	2033	1773	1607
Sulfur	ppm	ASTM D5185m	2060	4150	3989	3680
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	7	8
Sodium	ppm	ASTM D5185m		3	2	3
Potassium	ppm	ASTM D5185m	>20	<1	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.6	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	14.4	13.4	14.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.0	26.8	27.4
FLUID DEODAD	ATION	method	limit/base	current	history1	history2
FLUID DEGRADA	ATION	momod		Current	Thotory	,
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.8	26.4	26.3

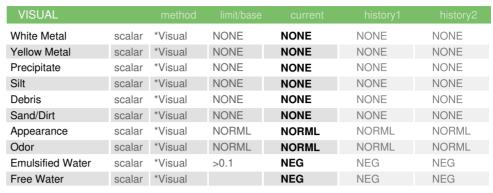


OIL ANALYSIS REPORT



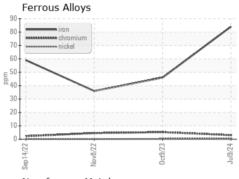


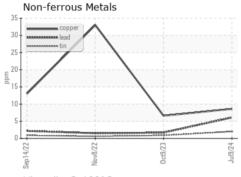


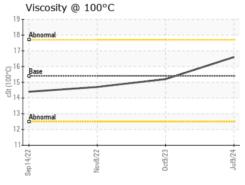


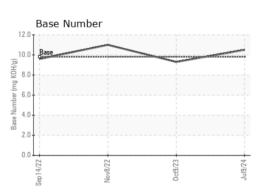
FLUID PROPER	ITIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	16.6	15.2	14.7

GRAPHS













Certificate 12367

Report Id: WESASH [WUSCAR] 06237282 (Generated: 07/17/2024 17:00:50) Rev: 1

Laboratory Sample No. Unique Number : 11126116

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0003880 Lab Number : 06237282

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.

Received **Tested**

: 15 Jul 2024 : 17 Jul 2024

Diagnosed Test Package : CONST (Additional Tests: TBN)

: 17 Jul 2024 - Don Baldridge

Ashland, NE US 68003 Contact: ZACH SPURLOCK zachs@westernsand.com T: (402)944-3084

Western Sand and Gravel - 604602

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

Submitted By: ZACH SPURLOCK

248 CO Road G