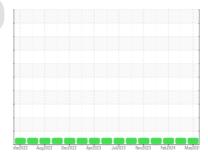


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
211 []
Component
Diesel 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

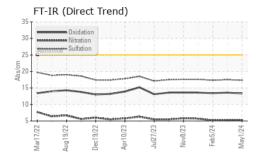
Fluid Condition

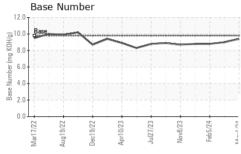
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

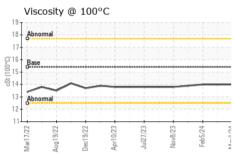
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0003877	SBP0003882	SBP0003819
Sample Date		Client Info		01 May 2024	14 Mar 2024	05 Feb 2024
Machine Age	hrs	Client Info		10761	10516	10230
Oil Age	hrs	Client Info		245	286	230
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	2	<1	2
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	1	<1	<1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>20	0	0	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	4	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	58	60
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	941	1069	990
Calcium	ppm	ASTM D5185m	1070	1082	1156	1110
Phosphorus	ppm	ASTM D5185m	1150	1116	1159	1051
Zinc	ppm	ASTM D5185m	1270	1280	1362	1244
Sulfur	ppm	ASTM D5185m	2060	3773	3899	3818
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	3	2
Sodium	ppm	ASTM D5185m		3	2	3
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.3	5.3	5.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	17.5	17.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	13.6	13.4
	mg KOH/g	ASTM D2896	9.8	9.4	9.0	8.8

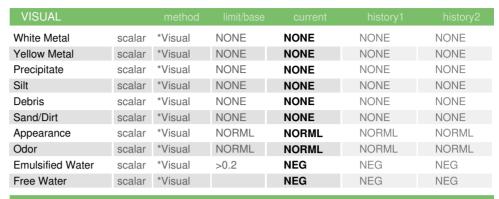


OIL ANALYSIS REPORT



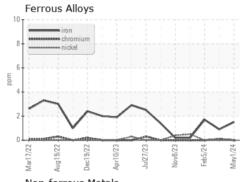


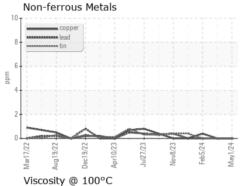


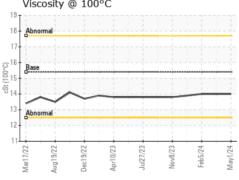


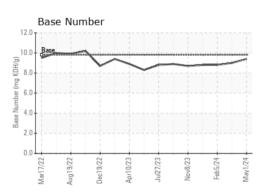
FLUID PROPERTIES		memod			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.0	14.0

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06237262

: SBP0003877 Unique Number : 11126096

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 15 Jul 2024 : 17 Jul 2024

Diagnosed

: 17 Jul 2024 - Wes Davis Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

Western Sand and Gravel - 604602

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) 248 CO Road G

Ashland, NE