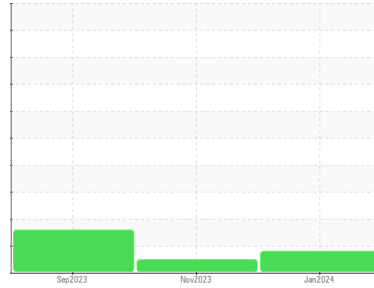


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
2227117

Component
Diesel Engine

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

DIAGNOSIS

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0114798	PCA0106354	PCA0101161
Sample Date	Client Info			22 Jan 2024	04 Nov 2023	04 Sep 2023
Machine Age	mls	Client Info		0	38250	18100
Oil Age	mls	Client Info		0	40000	15000
Oil Changed	Client Info			N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

CONTAMINATION		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		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	21	22	33
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	4	2	<1
Titanium	ppm	ASTM D5185m		3	<1	<1
Silver	ppm	ASTM D5185m	>3	2	3	18
Aluminum	ppm	ASTM D5185m	>20	7	13	39
Lead	ppm	ASTM D5185m	>40	<1	5	<1
Copper	ppm	ASTM D5185m	>330	▲ 353	452	150
Tin	ppm	ASTM D5185m	>15	2	2	4
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

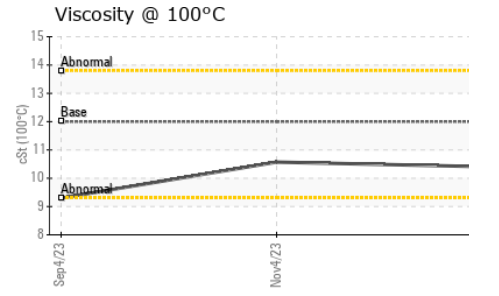
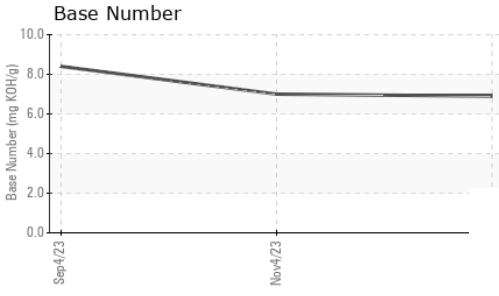
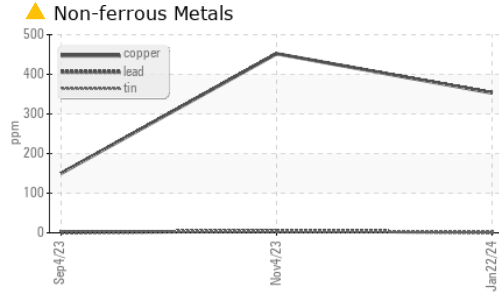
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	6	13	249
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	57	68	112
Manganese	ppm	ASTM D5185m	0	1	1	4
Magnesium	ppm	ASTM D5185m	950	877	875	687
Calcium	ppm	ASTM D5185m	1050	1066	1190	1576
Phosphorus	ppm	ASTM D5185m	995	1011	987	719
Zinc	ppm	ASTM D5185m	1180	1184	1135	907
Sulfur	ppm	ASTM D5185m	2600	2644	2378	3054

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	11	▲ 45
Sodium	ppm	ASTM D5185m		2	2	4
Potassium	ppm	ASTM D5185m	>20	14	31	93

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.3	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.8	24.0

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	16.3	20.1
Base Number (BN)	mg KOH/g	ASTM D2896		6.9	7.0	8.4

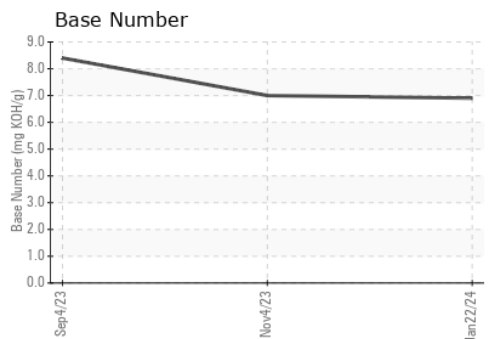
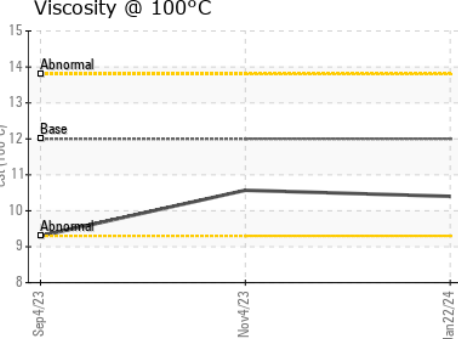
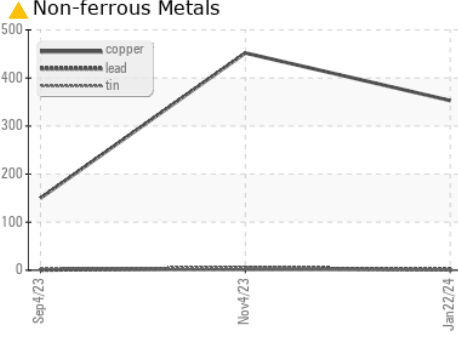
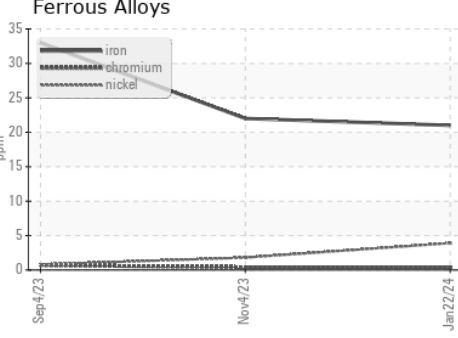
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	10.4	10.57

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0114798 **Recieved** : 31 Jan 2024
Lab Number : **06075547** **Diagnosed** : 01 Feb 2024
Unique Number : 10857638 **Diagnostician** : Sean Felton
Test Package : FLEET

PERDUE FARMS - SALISBURY
 7036 ZION CHURCH ROAD
 SALISBURY, MD
 US 21802
 Contact: RICHARD O'NEAL
 richard.oneal@perdue.com
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 F: (410)341-2164

Certificate L2367
 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.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)