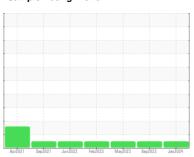


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



NAVISTAR 111312

Component

Diesel Engine

SHELL ROTELLA T 15W40 (--- QTS)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

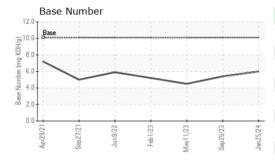
Fluid Condition

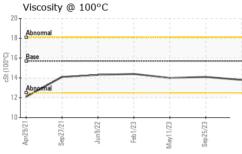
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Apr2021	Sep2021 Jun2022	Feb2023 May2023 Sep2023	Jan2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL0033065	IL0032724	IL0027547
Sample Date		Client Info		25 Jan 2024	25 Sep 2023	11 May 2023
Machine Age	mls	Client Info		369857	324817	289734
Oil Age	mls	Client Info		45040	35083	40567
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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	29	17	22
Chromium	ppm	ASTM D5185m	>20	2	1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	8	4	<1
Lead	ppm	ASTM D5185m	>40	2	<1	1
Copper	ppm	ASTM D5185m	>330	4	3	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	15	19	13
Barium	ppm	ASTM D5185m	0.0	<1	0	0
Molybdenum	ppm	ASTM D5185m	1.2	70	33	88
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	24	591	204	48
Calcium	ppm	ASTM D5185m	2292	2094	1987	2205
Phosphorus	ppm	ASTM D5185m	1064	1167	919	888
Zinc	ppm	ASTM D5185m	1160	1559	1187	1129
Sulfur	ppm	ASTM D5185m	4996	3917	3323	3911
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	6	9
Sodium	ppm	ASTM D5185m		4	3	5
Potassium	ppm	ASTM D5185m	>20	8	5	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	0.8	1
Nitration	Abs/cm	*ASTM D7624	>20	11.2	10.0	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.7	24.0	24.8
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5	18.9	18.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	6.0	5.4	4.5
, ,						



OIL ANALYSIS REPORT

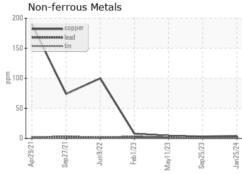


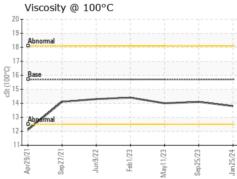


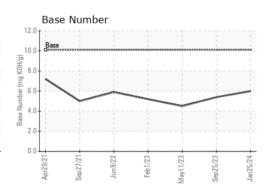
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.7	13.8	14.1	14.0

Ferrous Alloys











Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number** Test Package : FLEET

: IL0033065 : 06076706 : 10858797

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 01 Feb 2024 Diagnosed

: 02 Feb 2024 Diagnostician : Don Baldridge

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)

IDEALEASE OF NORTHWEST WI

Contact/Location: GARY KOLTZ - IDEGREWI

611 HANSEN ROAD GREEN BAY, WI US 54304

Contact: GARY KOLTZ gkoltz@pcitrucks.com

> T: (920)499-6200 F: (920)499-5332