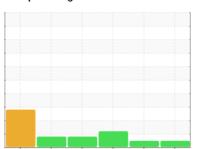


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **FREIGHTLINER 2200**

Diesel Engine

ROYAL PURPLE MOTOR OIL 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

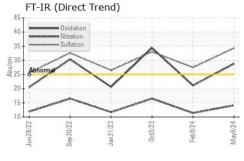
Fluid Condition

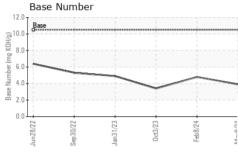
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

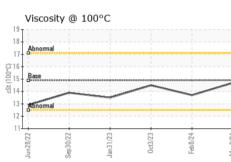
15)		Jun2022	Sep2022 Jan2023	Oct2023 Feb2024	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0720101	WC0720050	WC0720183
Sample Date		Client Info		09 May 2024	08 Feb 2024	03 Oct 2023
Machine Age	mls	Client Info		393365	347207	290305
Oil Age	mls	Client Info		100000	50000	100000
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	81	49	74
Chromium	ppm	ASTM D5185m	>6	2	1	2
Nickel	ppm	ASTM D5185m	>3	1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>50	11	9	13
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	13	9	22
Tin	ppm	ASTM D5185m	>6	1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	100	7	8	49
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m	60	126	132	735
Calcium	ppm	ASTM D5185m	3050	2575	2604	1592
Phosphorus	ppm	ASTM D5185m	1050	1070	1037	968
Zinc	ppm	ASTM D5185m	1200	1236	1232	1262
Sulfur	ppm	ASTM D5185m	12500	3944	3634	2530
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	12	10	12
Sodium	ppm	ASTM D5185m		4	2	4
Potassium	ppm	ASTM D5185m	>20	20	12	23
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.2	1.5	2.4
Nitration	Abs/cm	*ASTM D7624	>20	14.1	11.4	16.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	34.3	27.5	33.0
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.8	21.1	34.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	3.9	4.8	3.4



OIL ANALYSIS REPORT



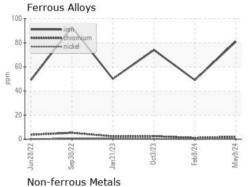


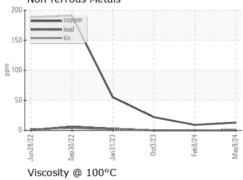


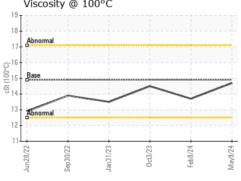
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

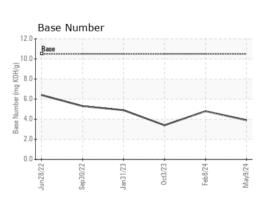
FLUID PROPER	HES	method	iimit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	14.9	14.7	13.7	14.5

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06213295 Unique Number : 11086159

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0720101 Received **Tested**

: 18 Jun 2024 : 19 Jun 2024

Diagnosed : 20 Jun 2024 - Sean Felton

US 37015 Contact: MASON NICHOLSON

Contact/Location: MASON NICHOLSON - DILASH

M.NICHOLSON@DILLONTRANSPORTATION.COM T: (615)792-5099

DILLON TRANSPORTATION

974 TN WALTZ PARKWAY

ASHLAND CITY, TN

Test Package : FLEET 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) F: (615)469-4200

Report Id: DILASH [WUSCAR] 06213295 (Generated: 06/20/2024 14:31:03) Rev: 1