

OIL ANALYSIS REPORT

Machine Id CASE 5240 JJF1032237

Diesel Engine

TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (18 QTS)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06219930	TR06219928	TR06132263
	Sample Date		Client Info		19 May 2024	28 Apr 2024	25 Feb 2024
	Machine Age	hrs	Client Info		3612	3232	2769
	Oil Age	hrs	Client Info		380	463	452
	Filter Age	hrs	Client Info		380	463	452
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	8	24	26
	Chromium	ppm	ASTM D5185m	>20	<1	2	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
	Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	4	4	3
	Lead	ppm	ASTM D5185m	>40	0	<1	2
	Copper	ppm	ASTM D5185m	>330	<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>25	4	8	8
	Potassium	ppm	ASTM D5185m	>20	2	2	2
	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
	Soot %	%	*ASTM D7844	>6	0.2	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	6.3	8.0	8.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	19.2	19.7
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	5	4
	Boron	ppm	ASTM D5185m		1	4	1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	<1	<1
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		23	32	22
	Calcium	ppm	ASTM D5185m		5428	5652	5353
	Phosphorus	ppm	ASTM D5185m		1041	1057	979
	Zinc	ppm	ASTM D5185m		1213	1273	1166
	Sulfur	ppm	ASTM D5185m		5119	5157	4380
	Oxidation	Abs/.1mm	*ASTM D7414	>25	10.3	12.8	13.2
	Base Number (BN)	mg KOH/g	ASTM D2896		14.70	15.30	16.19
		0				110	45.4

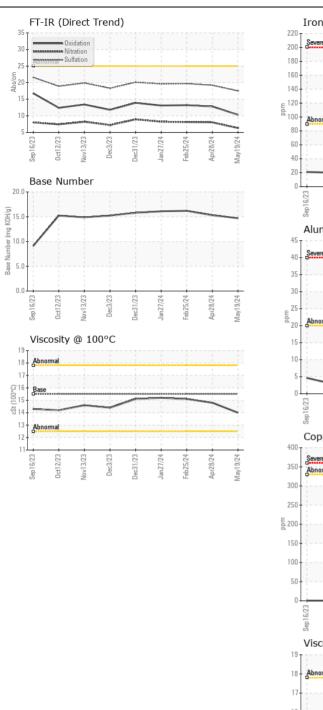
Visc @ 100°C cSt

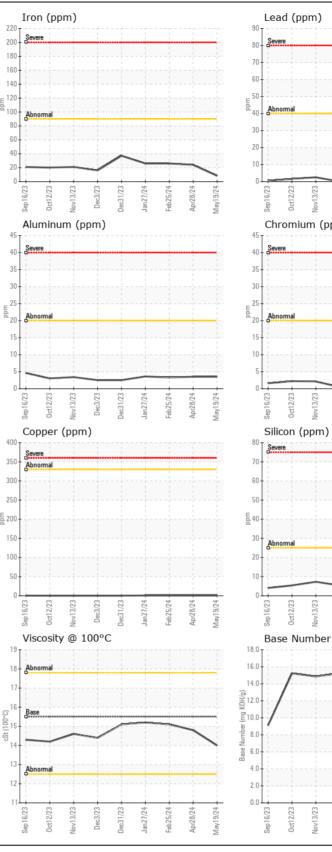
ASTM D445 15.5

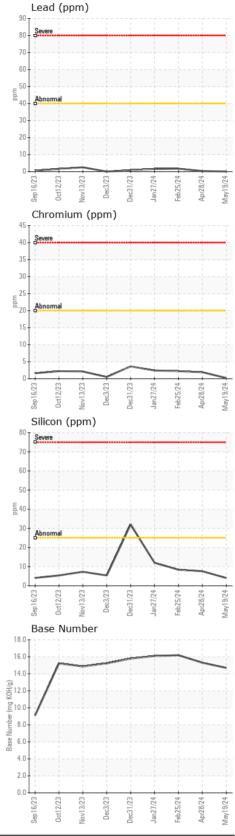
14.8

15.1

14.0







DOUBLE S DAIRIES

HARTLEY, TX US 79044 Contact: MIKE LEWIS

Centificate 12367 Test Package : MOB 2 To discuss this sample report, contact Customer Service at 1-800-827-0711.

Unique Number : 11098127

Laboratory

Sample No.

Lab Number

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

: TR06219930

: 06219930

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

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

Received

Diagnosed

Tested

: 25 Jun 2024

: 26 Jun 2024

: 26 Jun 2024 - Wes Davis

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Contact/Location: MIKE LEWIS - DOUHAR Page 2 of 2