WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

50005 Component

Diesel Engine							
DIESEL ENGINE OIL SAE 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		WC0936286	WC0936287	WC0869215
	Sample Date		Client Info		26 Apr 2024	26 Apr 2024	23 Oct 2023
	Machine Age	mls	Client Info		136201	73986	93980
	Oil Age	mls	Client Info		0	0	25000
	Filter Age	mls	Client Info		0	0	25000
	Oil Changed		Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	38	43	20
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2	3	1
	Nickel	ppm	ASTM D5185m	>4	<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	1	<1	0
	Aluminum	ppm	ASTM D5185m	>20	9	24	7
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m		27	107	40
	Tin	ppm	ASTM D5185m	>15	1	2	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10	7	7
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	15	58	19
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.6	0.8	0.7
	Nitration	Abs/cm	*ASTM D7624		8.8	9.5	9.8
	Sulfation	Abs/.1mm	*ASTM D7415		23.4	22.7	22.4
	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 Emulsified Water	scalar	*Visual	NORML >0.2	NORML NEG	NORML NEG	NORML NEG
ELUD CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	0
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		57	12	<1
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	<1
	Manganese	ppm	ASTM D5185m ASTM D5185m	100	95 1	74 1	63 <1
	Manganese Magnesium	ppm	ASTM D5185m	150	1 590	974	932
	Calcium	ppm	ASTM D5185m		1447	1267	1128
	Phosphorus	ppm	ASTM D5185m		978	834	910
	Zinc	ppm	ASTM D5185m		1344	1173	1194
	Sulfur	ppm	ASTM D5185m		2877	2260	2716
	Oxidation	Abs/.1mm	*ASTM D7414		19.6	18.1	18.6
	D. N. J. (D.)	11001.1111111	AOTH DOCCO	25	13.0	10.1	70.0

6.9

13.1

6.2

13.3

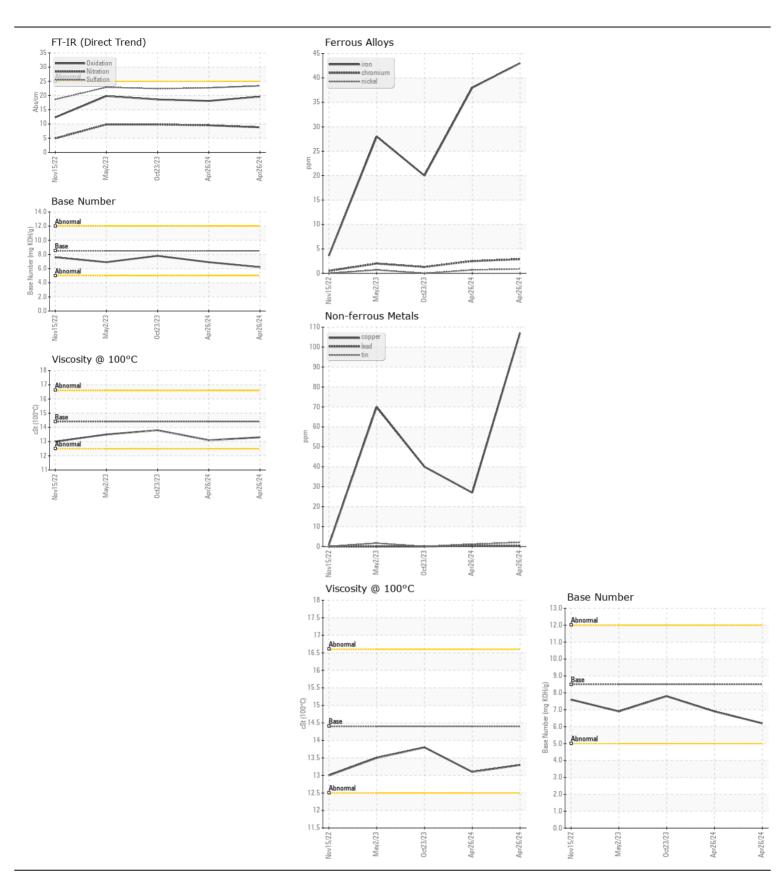
Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt

7.8

13.8







Certificate L2367

Laboratory Sample No.

: WC0936286 Lab Number : 06190048 Unique Number : 11046800 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024 **Tested**

: 25 May 2024 : 25 May 2024 - Wes Davis Diagnosed

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins

Audrey.Hopkins@salemcorp.com

* - 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) T: (336)767-9642 F: x: