

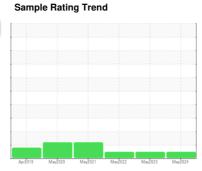
# **OIL ANALYSIS REPORT**



Area (EQ1838) W North Road BPS Electrical (S/N FSE02861)

Diesel Engine

KENDALL SHP 5W40 Diesel Engine Oil (35 QTS)





## DIAGNOSIS

### 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

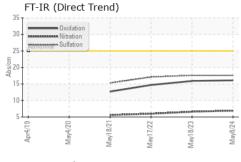
## **Fluid Condition**

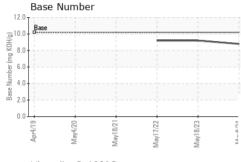
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

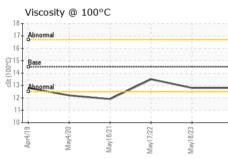
Ser Engine on (o	0 (1.0)					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934072	WC0810890	WC0696111
Sample Date		Client Info		08 May 2024	18 May 2023	17 May 2022
Machine Age	hrs	Client Info		381	343	0
Oil Age	hrs	Client Info		381	60	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	1.9
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	2	1	2
Chromium	ppm	ASTM D5185m	>6	<1	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	2
Aluminum	ppm	ASTM D5185m	>30	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m		2	2	2
Tin	ppm	ASTM D5185m	>4		<1	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES	ррііі	method	limit/base	current	history1	history2
Boron	222	ASTM D5185m	mmobase	65	70	72
Barium	ppm	ASTM D5185m		0	0	0
	ppm				55	57
Molybdenum	ppm	ASTM D5185m		58		
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		1116	1044	1113
Calcium	ppm	ASTM D5185m		894	836	926
Phosphorus 	ppm	ASTM D5185m	1000	1102	1005	1122
Zinc	ppm	ASTM D5185m	1288	1308	1224	1251
Sulfur	ppm	ASTM D5185m		4100	3697	3150
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	5	4	5
Sodium	ppm	ASTM D5185m		2	2	1
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.6	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	17.6	17.1
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	15.9	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	8.8	9.2	9.2
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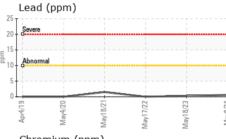


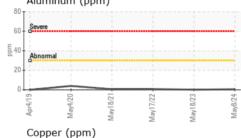


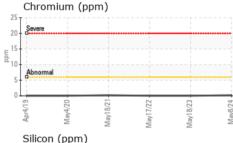
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

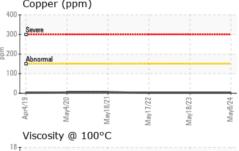
I LOID I HOI LIH						
Visc @ 100°C	cSt	ASTM D445	14.5	12.8	12.8	13.5

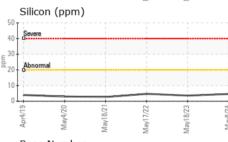
Iron (p	ppm)				
Severe	i	i ! !	i	1	į
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O Abnormal					
0			!		
Apr4/19	May4/20 -	May18/21-	May17/22 -	May18/23 -	May8/24 -
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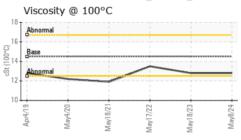


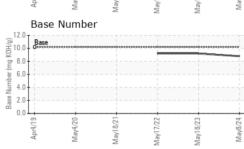
















Laboratory Sample No.

Lab Number : 06176909

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0934072

Received **Tested** Diagnosed

: 13 May 2024 : 14 May 2024 : 14 May 2024 - Sean Felton

4799 DEWEY AVE ROCHESTER, NY US 14612 Contact: SCOTT TRAIL

scott.trail@mcwa.com

T: (585)775-5257

MONROE COUNTY WATER AUTHORITY

Unique Number : 11022962 Test Package : MOB 1 ( Additional Tests: TBN ) Certificate 12367 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)

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